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Bulletin of the
Society for the Promotion of Engineering Education

Vol. VIII Lancaster, Pa., March, 1918 No. 7

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BULLETIN

OF THE

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Published under the supervision of the Publication Committee:

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   Study of the methods of admission to engineering schools including European schools.

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   Occupation of engineering teachers during the summer vacation.

   (1) Present status of summer employment.
   (2) Opportunities for such employment.
   (3) Fields recommended.

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ADAMS, COMFORT, A., Abbott and James Lawrence Professor of Engineering, Harvard University, and Massachusetts Institute of Technology, Cambridge, Mass. 1894

ADAMS, FRANK D., Dean of the Faculty of Applied Science, McGill University, Montreal, Canada..... 1909

ADAMS, F. J., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1912

ADAMS, W. H., Professor of Mechanical Engineering, Throop College of Technology, Pasadena, Calif. 1908

ADAMSON, K. F., Assistant Professor of Mechanical Engineering, Case School of Applied Science, Cleveland O. 1912

ADELSPERGER, ROLLAND, Professor of Architecture and Architectural Engineering, Texas A. & M. College, College Station, Tex. 1914

ADLER, A. A., Assistant Professor of Mechanical Drawing and Design, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

AGG, T. R., Professor of Highway Engineering, Iowa State College, Ames, Ia. 1915

AKELEY, L. E., Dean of the College of Engineering and Professor of Physics, University of South Dakota, Vermilion, S. D.... 1910

ALBERT, C. E., Civil Engineer, Camden Iron Works, Camden, N. J. 1914

ALDRICH, WM. S., Associate Professor of Electrical Engineering, Colorado Agricultural College, Fort Collins, Colo. 1893

ALEXANDER, MAGNUS W., Consulting Engineer, General Electric Co., Managing Director, National Industrial Conference Board, Boston, Mass. 1911

ALLEE, W. G., Instructor in Physics, Kansas State Agricultural College, Manhattan, Kans. 1915

ALLEN, C. F., 88 Montview St., West Roxbury, Mass. 1893

ALLEN, CHESTER, Burton F. Blough Professor of Civil Engineering, Pennsylvania College, Gettysburg, Pa. 1917

ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass..... 1903

ALLEN, F. G., Assistant Professor in General Engineering Drawing, University of Colorado, Boulder, Colo. 1913

ALLEN, J. R., Dean, Engineering Department, University of Minnesota, Minneapolis, Minn. 1907

ALLISON, W. F., Professor of Municipal and Highway Engineering, University of Washington, Seattle, Wash. 1915

ANDERSON, A. H., Associate Professor of Mechanical Engineering, Armour Institute of Technology, Chicago, Ill. 1910

ANDERSON, D. S., Professor of Electrical Engineering, Tulane University, New Orleans, La. 1900

ANDERSON, F. PAUL, Dean of the College of Mechanical and Electrical Engineering, Professor of Mechanical Engineering and Director of the Experiment Engineering Laboratories, University of Kentucky, Lexington, Ky. 1894

ANDERSON, G. G., Consulting Civil Engineer, 336–337 Consolidated Realty Bldg., Los Angeles, Cal. 1910

ANDERSON, R. J., Instructor in Metallurgy, Missouri School of Mines, Rolla, Mo. 1915

ANDERSON, WILLIAM, Assistant Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1910

ANDREWS, W. H., Associate Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1912

ANDROS, S. O., Executor M. W. Flournoy Estate, Albuquerque, N. M. 1913

ANGEL, WM. P., Assistant Professor of Physics, Oklahoma A. &. M. College, Stillwater, Okla. 1914

ANTHONY, G. C., Professor of Technical Drawing and Dean of the Engineering School, Tufts College, Tufts College, Mass..... 1896

APPLEBY, W. R., Dean of the Minnesota School of Mines and Professor of Metallurgy, University of Minnesota, Minneapolis, Minn. 1913

APPLETON, W. D., Mechanical Engineer, The Guanajuato Power and Electric Co., Zamora, Michoacan, Mexico..... 1907

APPLIN, SAMUEL, Instructor in Iron Working, University of Pennsylvania, Philadelphia, Pa. 1912

ARD, C. E., Consulting and Contracting Engineer, 402 American Trust Bldg., Birmingham, Ala. 1911

ARKLEY, L. M., Assistant Professor of Mechanical Engineering, University of Toronto, Toronto, Canada 1908

ARMSBY, HENRY H., Instructor in Civil Engineering, Missouri School of Mines and Metallurgy, Rolla, Mo. 1917

ARNETT L. D., Librarian, West Virginia University, Morgantown, W. Va. 1915

ARNOLD, BION J., Consulting Electrical Engineer, 105 S. La Salle St., Chicago, Ill. 1906

ASHTON, C. H., Professor of Mathematics, University of Kansas, Lawrence, Kans. 1915
ASTON, JAMES, Bureau of Mines, 40th & Butler Sts., Pittsburgh, Pa. 1910
ATKINSON, F. W., President of the Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1905
ATKINSON, THOS. W., Dean of the College of Engineering, Louisiana State University, Baton Rouge, La. 1907
AUDE, H. T. R., Assistant Professor of Mathematics, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
AUSTIN, F. E., Professor of Electrical Engineering, Dartmouth College, Hanover, N. H. 1912
AVRAM, M. H., Lecturer on Industrial Engineering, New York, University, New York, N. Y. 1918
AYARS, W. S., Professor of Electrical and Mechanical Engineering, Nova Scotia Technical College, Principal Re-Education Dept., Military Hospitals Commission, Canada, Halifax, N. S. 1907
AYDELOTTE, FRANK, Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1915
AYER, A. W., Factory Manager, Midland Chemical Co., Chicago, Ill. 1894
AYER, FRED. E., Dean College of Engineering, and Professor of Civil Engineering, Municipal University of Akron, Akron, O. 1907
AYRES, BROWN, President of The University of Tennessee, Knoxville, Tenn. 1898
BABBITT, ARTHUR B., Head of the Department of Drawing and Design, Wentworth Institute, Boston, Mass. 1912
BABCOCK, E. J., Dean of the College of Engineering and Acting President, Professor of Industrial Chemistry and Metallurgy and Director of Experimental Engineering Stations, University of North Dakota, Grand Forks, N. D. 1907
BACHE-WIIG, Jens, Professor of Electrical Engineering, Norwegian Technical University, Trondhjem, Norway, Europe 1914
BACON, G. M., Civil Engineer, 311 Newhouse Bldg., Salt Lake City, Utah 1907
BAEBENROTH, A. C., Professor and Head of Department of English, College of Applied Science, Syracuse University, Syracuse, N. Y. 1915
BAENDER, F. G., Professor of Heat Power Engineering, Supt., Mechanic Arts, State University of Arkansas, Fayetteville, Ark. 1917
BAILEY, A. R., Assistant Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1915
BAINBRIDGE, G. H., Instructor, Dept. of Mathematics and Surveying, Rensselaer Polytechnic Institute, Troy, N. Y. 1916

BAKER, CECIL F., Professor of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1917
BAKER, IRA O., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1893
BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908
BANKSON, E. E., Civil Engineer, with Chester & Fleming, Hydraulic and Sanitary Engineers, Pittsburgh, Pa. 1910
BARBA, C. E., Supt. Mobile Artillery Shops, Midvale Steel Co., Philadelphia, Pa. 1915
BARK, ELMER, Power Engineer, The Barrett Co. (Chemical Dept.), Frankford, Pa. 1912
BARNARD, W. N., Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910
BARNES, A. F., Dean School of Engineering, New Mexico College of A. & M. Arts, State College, New Mex. 1914
BARNES, F. A., Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1904
BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912
BARNEY, S. E., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1894
BARRACLOUGH, S. H. E., Professor of Mechanical Engineering, University of Sydney, Sydney, Australia. 1900
BARROWS, H. K., Associate Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902
BARROWS, W. E. JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908
BARTHOLOMEW, H. C., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915
BARTON, E. C., Engineer and Manager, City Electric Light Co., Brisbane, Queensland, Australia 1914
BASQUIN, O. H., Professor of Applied Mechanics, Northwestern University, Evanston, Ill. 1908
BASS, FREDERIC, Professor of Municipal and Sanitary Engineering, University of Minnesota, Minneapolis, Minn. 1904
BATES, J. T., Assistant Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1912
BATES, ONWARD, Civil Engineer, 332 S. Michigan Ave., Chicago, Ill. 1903
BAUER, F. S., Assistant Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914
BAUER, W. C., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910

BAUM, WM., Dean, School of Engineering of Milwaukee, Milwaukee, Wis. 1916
BEAVER, J. L., Assistant Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1914
BECKER, A. J., Professor of Applied Mathematics, University of North Dakota, Grand Forks, N. D. 1907
BEACH, ROBIN, Professor of Electrical Engineering, Norwich University, Northfield, Vt. 1917
BEGGS, G. E., Assistant Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915
BELL, J. M., Professor of Physical Chemistry, University of North Carolina, Chapel Hill, N. C. 1914
BELLIS, A. E., Professor of Physics, University of Wyoming, Laramie, Wyo. 1914
BENEDICT, B. W., Director of Shop Laboratories, University of Illinois, Urbana, Ill. 1912
BENEDICT, H. G., Works Manager, The Glenn L. Martin Company, Cleveland, O. 1913
BENEDICT, H. Y., Professor of Applied Mathematics and Dean of the College of Arts, University of Texas, Austin, Texas..... 1906
BENJAMIN, C. H., Dean of the Schools of Engineering and Director, Engineering Experiment Station, Purdue University, La-Fayette, Ind. 1893
BENKERT, H. N., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1909
BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1909
BENTON, J. R., Professor of Physics and Electrical Engineering, and Dean of the College of Engineering, University of Florida, Gainesville, Fla. 1905
BENZENBERG, G. H., Consulting Civil Engineer, Retired, 255 Greenbush St., Milwaukee, Wis. 1907
BERARD, S. J., Instructor in Machine Design, Yale University, New Haven, Conn. 1912
BERENTS, H., Consulting Civil Engineer, 13 Nanking Road, Shanghai, China 1911
BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910
BERGER, F. A., Assistant Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1910
BERRESFORD, A. W., Vice-President and General Manager, The Cutler-Hammer Mfg. Co., Milwaukee, Wis. 1911
BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. 1916

BERRY, W. J., Associate Professor of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

BETTS, PHILANDER, Chief Engineer, Public Utility Commission of New Jersey, Newark, N. J. 1907

BEVAN, W. A., Assistant Professor of Physics, Oregon Agricultural College, Corvallis, Ore. 1915

BEYER, S. W., Dean of the Division of Engineering and Professor of Geology and Mining Engineering, Iowa State College, Ames, Ia. 1899

BIEGLER, P. S., Assistant Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1908

BIERMA, A. G., Professor in charge of Mechanical Engineering, University of Detroit, Detroit, Mich. 1913

BIKLE, J. S., Instructor in Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1918

BILLMYER, CARROLL D., Instructor in Mechanical Engineering, Throop College of Technology, Pasadena, Calif. 1911

BIRD, H. C., Professor of Civil Engineering, Pennsylvania Military College, Chester, Pa. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRD, WM. W., Professor of Mechanical Engineering, and Director of the Washburn Shops, Worcester Polytechnic Institute, Worcester, Mass. 1910

BISHOP, C. T., Assistant Professor of Structural Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Dean School of Engineering, Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1907

BISSELL, G. W., Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

BITTING, H. S., President of the Williamson Free School of Mechanical Trades, Williamson School, Delaware Co., Pa. 1909

BLACK, R. M., Associate Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLACKBURN, H. W., Instructor, Wentworth Institute, Boston, Mass. 1912

BLAKE, FREDERIC C., Professor of Physics, The Ohio State University, Columbus, O. 1918

BLAKESLEE, D. W., Electrical Engineer and Assistant Supt., Penn Electrical and Mfg. Co., Irwin, Pa. 1914

BLANCHARD, A. H., Consulting Highway Engineer, Broadway and 117th St., New York, N. Y. 1902

BLAND, J. C., Engineer of Bridges, Pennsylvania Lines West of Pittsburgh, Room 520, Penna. Station, Pittsburgh, Pa. 1911

BLESSING, G. F., Professor of Mechanical Engineering, in charge of Engineering, Swarthmore College, Swarthmore, Pa. 1910
BLISS, COLLINS P., Professor of Mechanical Engineering, New York University, University Heights, New York City 1915
BLOEMKER, CHAS. W., Instructor in Forging, University of Pennsylvania, Philadelphia, Pa. 1912
BLUME, L. F., Electrical Engineer, General Electric Co., Pittsfield, Mass. 1911
BOARDMAN, H. P., Professor of Civil Engineering, University of Nevada, Reno, Nev. 1914
BOARDMAN, H. S., Dean of the College of Technology and Professor of Civil Engineering, University of Maine, Orono, Me..... 1903
BOGARD, FRANK, Supt., Mechanical and Electrical Engineering Courses, Louisiana Industrial Institute, Ruston, La. 1914
BOLTON, F. C., Professor of Electrical Engineering, A. and M. College of Texas, College Station, Texas 1910
BOOMSLITER, G. P., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1912
BOOTHROYD, S. L., Associate Professor of Astronomy, University of Washington, Seattle, Wash. 1908
BOWERMAN, M. R., Checker, Alliance Machine Co., Alliance, O. ... 1909
BOYD, ALFRED, Dean, School of Engineering, and Professor of Civil Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1909
BOYD, J. E., Professor of Mechanics, The Ohio State University, Columbus, O. 1907
BOYER, F. Q., Engineer of Tests, The H. B. Smith Co., Westfield, Mass. 1912
BOYLE, A. C., JR., Professor of Mining Engineering and Economic Geology, University of Wyoming, Laramie, Wyo. 1911
BOZELL, H. V., Assistant Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. ... 1912
BRACKETT, B. B., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1906
BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896
BRASEFIELD, S. E., Professor of Applied Mathematics, Rutgers College, New Brunswick, N. J. 1916
BRATTON, W. A., Professor of Mathematics and Dean of Science Group, Whitman College, Walla Walla, Wash. 1911
BRAUNE, G. M., Assistant Professor of Civil Engineering, University of Cincinnati, Cincinnati, Ohio..... 1914
BRAY, H. C. C., Instructor to the Apprentices, Nova Scotia Steel and Coal Co., Ltd., New Glasgow, Nova Scotia, Canada 1916

BRECKENRIDGE, L. P., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn.... 1893

BREED, C. B., Professor of Railroad Engineering, Massachusetts Institute of Technology, Boston, Mass. 1904

BRIDGMAN, J. N., Associate Professor of Civil Engineering, University of Nebraska, Lincoln, Neb. 1913

BRINGHURST, J. H., Associate in Civil Engineering, Johns Hopkins University, Baltimore, Md. 1915

BRODIE, HUGH, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1915

BROOKE, W. E., Head of Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1902

BROOKS, J. ANSEL, Associate Professor of Mechanics and Mechanical Drawing, Brown University, Providence, R. I. 1904

BROOKS, J. P., President, Clarkson College of Technology, Potsdam, N. Y. 1898

BROOKS, MORGAN, Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROWN, A. I., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1914

BROWN, CARROLL G., Laboratory Director, Rochester Railway & Light Co., Rochester, N. Y. 1914

BROWN, CHAS. B., Professor of Civil Engineering, University of Maine, Orono, Me. 1912

BROWN, F. L., Assistant Professor of Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, HENRY B., President, Valparaiso University, Valparaiso, Ind., ... 1908

BROWN, H. W., Electrical Engineer, General Electric Co., Schenectady, N. Y. 1916

BROWN, J. M., Professor of Civil Engineering, University of South Dakota, Vermillion, S. D. 1916

BROWN, (MRS.) KATHARINE D., Professor of Technical English, Drexel Institute, Philadelphia, Pa. 1914

BROWN, R. A., Instructor in Electrical Engineering, The Ohio State University, Columbus, O. 1917

BROWN, S. L., Associate Professor of Physics, University of Texas, Austin, Tex. 1914

BROWNE, EDWARD T., Instructor in Mathematics, University of Virginia, University, Va. 1915

BROWNE, WM. HAND, JR., Professor of Electrical Engineering, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1899

BRYANS, W. R., Associate Professor in the School of Applied Science, New York University, New York, N. Y. 1908
BRYANT, J. M., President Academic Board, U. S. Army, School Military Aeronautics, University of Texas, Austin, Tex. 1910
BRYDONE-JACK, E. E., Superintending Engineer, Public Works of Canada, Winnipeg, Man. 1902
BUCK, A. M., Consulting Engineer with J. A. Beeler, 52 Vanderbilt Ave., New York, N. Y. 1910
BULLOCK, W. E., Managing Editor, American Society of Mechanical Engineers, New York, N. Y. 1917
BUMP, M. R., Chief Engineer, Henry L. Doherty & Co., 60 Wall St., New York, N. Y. 1907
BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910
BURNSIDE, C. H., Associate Professor of Mechanics, Columbia University, New York, N. Y. 1910
BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910
BURR, W. H., Emeritus Professor of Civil Engineering, Columbia University, Consulting Engineer, 120 Broadway, New York, N. Y. 1893
BURSLEY, J. A., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1910
BURT, H. J., Structural Engineer, Holabird & Roche, Architects, 1027 Elmwood Ave., Wilmette, Ill. 1910
BURTON, A. E., Professor of Topographical Engineering, in charge of Department of Drawing, and Dean of the Massachusetts Institute of Technology, Cambridge, Mass. 1904
BUSH, VANNEVAR, Assistant Professor of Electrical Engineering Tufts College, Tufts College, Mass. 1917
BUTLER, G. M., Dean, College of Mines and Engineering, University of Arizona, Tucson, Ariz. 1916
BUTTERFIELD, A. D., Professor of Mathematics and Geodesy, Worcester Polytechnic Institute, Worcester, Mass. 1908
CAJORI, FLORIAN, Dean of the Department of Engineering, Professor of Mathematics, Colorado College, Colorado Springs, Colo. 1904
CALDWELL, EDWARD, Treasurer of the McGraw-Hill Book Co., Inc., 239 W. 39th St., New York, N. Y. 1905
CALDWELL, F. C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1897
CALLAN, J. A. C., Assistant Professor of Surveying and Drawing, Union University, Schenectady, N. Y. 1909
CALLAN, JOHN G., Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1917

CALNAN, J. W., Instructor in charge of Department of Chemistry, Franklin Union, Boston, Mass. 1910
CAMPBELL, T. P., Dean, General Faculty, Virginia Polytechnic Institute, Blacksburg, Va. 1917
CANNON, J. H., Associate Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1915
CAPEN, S. P., Specialist in Higher Eudcation, Bureau of Education, Washington, D. C. 1917
CARLSON, W. W., Professor of Shop Practice and Superintendent of Shops, Kansas State Agricultural College, Manhattan, Kans. 1912
CARNEGIE, ANDREW, 2 E. 91st St., New York, N. Y. (Life Member). 1911
CARPENTER, H. D., 10759 Prospect Ave., Chicago, Ill. 1910
CARPENTER, Hubert V., Professor of Mechanical and Electrical Engineering, Dean, College of Mechanic Arts and Engineering, State College of Washington, Pullman, Wash. 1917
CARPENTER, L. G., Consulting Engineer, 707 First National Bank Bldg., Denver, Colo. 1895
CARPENTER, RANDLE C., Professor of Mechanical Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1914
CARREL, W. J., Associate Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917
CARROLL, H. H., Assistant Professor Technical Drawing, Tufts College, Tufts College, Mass. 1911
CARSON, W. W., Emeritus Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1894
CARTER, H. G., Assistant Electrical Engineer, Public Works Department, Sydney, New South Wales, Australia 1914
CARTY, J. J., Chief Engineer, American Telephone and Telegraph Co., 195 Broadway, New York, N. Y. 1907
CASE, G. W., Professor of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
CATLIN, W. G., Electrical Engineer, Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. 1912
CAUGHEY, R. A., Assistant Professor of Civil Engineering, Pennsylvania State College, State College, Pa. 1911
CHANDLER, E. F., Professor of Civil Engineering, and in charge of Civil Engineering Course, University of North Dakota, University, N. D. 1907
CHANEY, GEO. A., Associate Professor of Mathematics, Iowa State College, Ames, Ia. 1914
CHAPMAN, L. B., Engineer, Electric Boat Company, New London, Conn. 1917
CHARAVAY, M. A., Assistant Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

CHARLES, ROLLIN L., Assistant Professor of Physics, Lehigh University, Bethlehem, Pa. 1914

CHASE, C. H., Professor of Steam Engineering, Tufts College, Tufts College, Mass. 1900

CHASE, LEON W., Professor of Agricultural Engineering, University of Nebraska, Lincoln, Nebr. 1910

CHATBURN, G. R., Professor and Head of the Department of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1899

CHEDSEY, W. R., Assistant Professor of Mining, Colorado School of Mines, Golden, Colo. 1915

CHESNEY, C. C., Manager and Chief Engineer, General Electric Co., Pittsfield, Mass. 1911

CHRISTENSEN, GEO. L., Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1905

CHRISTIAN, J. W., Mechanical Engineer, 917 E. 11th Ave., Denver, Colo. 1914

CHURCH, E. F., JR., Professor of Machine Design and Construction, West Virginia University, Morgantown, W. Va. 1910

CHURCH, I. P., Emeritus Professor of Applied Mechanics and Hydraulics, Cornell University, Ithaca, N. Y. 1910

CLAPP, W. H., Associate Professor of Mechanism and Machine Design, Throop College of Technology, Pasadena, Calif. 1914

CLARK, J. C., Assistant Professor of Electrical Engineering, Leland Stanford Jr. University, Stanford University, Calif. 1912

CLARKSON, R. P., Consulting Engineer, General Manager, Safety Service Corporation, 29 Broadway, New York, N. Y. 1915

CLEGHORN, M. P., Associate Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910

CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1907

CLIFTON, H. T., Teacher in Physics and Geology, and Registrar, Pasadena High School, Pasadena, Calif. 1907

COAHRAN, J. M., Professor of Electrical Engineering, Villanova College, Villanova, Pa. 1916

COATES, ARTHUR B., Instructor in Mechanical Engineering, Unisity of Idaho, Moscow, Ida. 1918

COBB, COLLIER, Professor and Head of the Department of Geology and Mineralogy, University of North Carolina, Chapel Hill, N. C. 1916

COBB, H. E., Professor and Head of Department of Mathematics, Lewis Institute, Chicago, Ill. 1908

CODDINGTON, E. F., Acting Dean, College of Engineering, Professor of Mechanics, The Ohio State University, Columbus, O. 1911

CODWISE, H. R., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

COFFIN, C. A., Chairman, Board of Directors, General Electric Co., 120 Broadway, New York, N. Y. 1911

COLE, ALFRED D., Professor of Physics, Head of Department, The Ohio State University, Columbus, O. 1918

COMSTOCK, C. E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn. 1907

COMSTOCK, F. M., Professor of Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1907

CONKLING, L. D., Professor of Civil Engineering, Montana State A. & M. College, Bozeman, Mont. 1912

CONNER, S. L., Assistant Professor of Railroad Engineering, Tufts College, Tufts College, Mass. 1912

CONRAD, L. E., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1908

CONSOLIVER, EARL L., Instructor in Mechanical Drawing and Machine Design, University of Wisconsin, Madison, Wis. 1918

CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1896

COOK, A. L., Head of the Dept. of Applied Electricity, Pratt Institute, Brooklyn, N. Y. 1913

COOK, PAUL, President of W. & L. E. Gurley, and Treasurer of Rensselaer Polytechnic Institute, Troy, N. Y. 1913

COOK, ROBERTSON, Professor of Experimental Engineering, South Dakota State College, Brookings, S. D. 1913

COOKE, M. L., Consulting Engineer, 401 W. Walnut Lane, Germantown, Philadelphia, Pa. 1910

COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1893

COOMBS, S. E., Special Engineer, N. Y. C. & H. R. R. R. and Instructor in Mechanical Drawing, New York Evening High School for Men, Room 5613, Grand Central Terminal, New York, N. Y. 1913

COOPER, F. E., Management Engineer, with Boyden & Steacie, Boston, Mass. 1915

COOPER, F. L., Instructor in Physics, Yale University, New Haven, Conn. 1912

COPPERSMITH, C. W., Assistant Professor of Machine Design, Case School of Applied Science, Cleveland, O. 1915

CORBETT, L. J., Professor of Electrical Engineering, University of Idaho, Moscow, Ida. 1912

CORBIN, C. E., Professor of Engineering and Applied Mathematics, College of the Pacific, San Jose, Calif. 1917

CORNELL, W. R., Instructor in Applied Mechanics, Cornell University, Ithaca, N. Y. 1910

CORP, C. I., Associate Professor of Hydraulic Engineering, University of Wisconsin, Madison, Wis. 1910

CORY, C. L., Dean, College of Mechanics and Professor of Electrical Engineering, University of California, Berkeley, Calif..... 1915

COSTER, E. L., Literary Engineer, 25 Broad St., Room 1440, New York, N. Y. (Life Member) 1911

COVELL, G. A., Dean of the School of Engineering and Mechanic Arts, Oregon Agricultural College, Corvallis, Ore..... 1908

COX, J. J., Assistant Professor of Civil Engineering, in charge of Highway Engineering, University of Michigan, Ann Arbor, Mich. 1915

CRAIN, L. D., Professor of Mechanical Engineering, Head of Department, Colorado Agricultural College, Ft. Collins, Colo. ... 1918

CRANDELL, JOHN S., Consulting Engineer, The Barrett Co., 17 Battery Place, New York, N. Y. 1912

CRANE, H. G., Manufacturer of Electrical and Mechanical Apparatus, Brookline, Mass. 1908

CRAWFORD, D. F., General Manager, Pennsylvania Lines, and Director of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

CRAWFORD, I. C., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1913

CREAGMILE, WM. B., School of Engineering, Drexel Institute, Philadelphia, Pa. 1909

CREIGHTON, E. E. F., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1910

CREIGHTON, W. H. P., Dean of the College of Technology and Professor of Mechanical and Sugar Engineering, Tulane University, New Orleans, La. 1893

CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

CROSBY, W. W., Consulting Engineer, Baltimore, Md. 1911

CROSS, HARDY, Assistant Professor of Civil Engineering, Brown University, Providence, R. I. 1912

CROUCH, C. H., Professor of Mechanical Engineering and Director of Shops, University of North Dakota, Grand Forks, N. D..... 1907

CROW, RAY, 603 W. Camanche St., Norman, Okla. 1913
CRUM, R. W., Associate Professor of Experimental Engineering, Iowa State College, Ames, Ia. 1912
CULLIMORE, A. R., Professor of Civil Engineering and Dean of Engineering, Delaware College, Newark, Del. 1914
CUMMINGS, HAROLD N., Instructor in Practical Mathematics, Wentworth Institute, Boston, Mass. 1918
CURTIS, L. F., Assistant Professor of Electrical Engineering, University of Washington, Seattle, Wash. 1913
DADOURIAN, H. M., Instructor in Physics, Yale University, New Haven, Conn. 1913
DAGGETT, P. H., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910
DALAKER, H. H., Assistant Professor of Mathematics, in Engineering College, University of Minnesota, Minneapolis, Minn. 1909
DALBURG, F. A., Superintendent, Arctic Coal Co., Advent Bay, Spitsburgen, Pa. 1908
DAMON, GEORGE A., Consulting Engineer, 832 San Fernando Bldg., Los Angeles 1911
DANFORTH, R. H., Professor of Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1914
DANIELS, JOSEPH, Associate Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910
DARGAN, F. T., Professor of Electrical Engineering, Clemson A. & M. College of South Carolina, Clemson College, S. C. 1912
DATES, H. B., Professor of Electrical Engineering, Case School of Applied Science, Cleveland, O. 1904
DAVIDSON, J. B., Professor of Agricultural Engineering, University of California, University Farm, Davis, Cal. 1915
DAVIDSON, M. W., Professor of Mechanical Engineering, University of South Dakota, Vermilion, S. D. 1917
DAVIS, E. S., Instructor in Shop Practice, University of Oklahoma, Norman, Okla. 1917
DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1913
DAVIS, JAS. C., Assistant Professor of Mechanical Drawing, Worcester Polytechnic Institute, Worcester, Mass. 1909
DAVIS, JOHN C., Dean of the College of Applied Science and Engineering, Marquette University, Milwaukee, Wis. 1908
DAVIS, R. E., Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1913
DAVIS, R. P., Professor of Structural and Hydraulic Engineering, West Virginia University, Morgantown, W. Va. 1912

DAWES, C. L., Instructor in Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1915
DAY, CHARLES, President, Day & Zimmerman, Inc., Engineers, 611 Chestnut St., Philadelphia, Pa. 1911
DEAN, STANLEY, Assistant Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1917
DEARBORN, C. S., Mechanical Engineer, Blythe, Calif. 1910
DEARBORN, R. H., Head, Dept. of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1917
DEFOE, L. M., Professor of Mechanics, University of Missouri, Columbia, Mo. 1904
DEIMEL, R. F., Assistant Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. 1909
DELAY, FREDERIC A., Head Instructor, Chicago Central Station Institute, 72 W. Adams St., Chicago Ill. 1909
DELONG, IRA M., Professor of Mathematics, University of Colorado, Boulder, Colo. 1917
DEMOREST, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913
DENN, H. H., Instructor in Drawing, Germantown High School, Philadelphia, Pa. 1914
DENNISON, B. C., Assistant Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1912
DENNY, GEO. H., President, University of Alabama, University, Ala. 1913
DENT, J. A., Associate in Mechanical Engineering, University of Illinois, Urbana, Ill. 1911
DENTON, F. W., Consulting Engineer, Copper Range Co., 82 Devonshire St., Boston, Mass. 1894
DEPUY, C. E., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1908
DERLETH, CHAS., JR., Professor of Civil Engineering and Dean of the College of Civil Engineering, University of California, Berkeley, Calif. 1904
DESCHWEINITZ, P. B., Professor of Machine Design, Lehigh University, Bethlehem, Pa. 1912
DETURK, J. A., Instructor in Machine Shop Practice, University of Illinois, Urbana, Ill. 1915
DIBERT, H. M., Civil Engineer with W. & L. E. Gurley, Troy, N. Y. 1913
DICKERSON, H. S., Professor of Mechanical Engineering, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1912
DICKINSON, L. P., Professor of Physics and Electrical Engineering, Rhode Island State College, Kingston, R. I. 1914

DIEDERICHS, HERMAN, Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915
DIEMER, HUGO, Professor of Industrial Engineering, Pennsylvania State College, State College, Pa. 1902
DIETZ, J. W., Educational Director, Western Electric Co. Inc., Hawthorne Station, Chicago, Ill. 1911
DIX, L. E., Professor of Hydraulics and Sanitary Engineering, Norwich University, Northfield, Vt. 1917
DOBBS, F. E., Instructor in Estimating and Practical Mathematics, Wentworth Institute, Boston, Mass. 1912
DOGGETT, L. A., Professor of Electrical Engineering, U. S. Naval Academy, Annapolis, Md. 1914
DOHERTY, H. L., President, Cities Service Company, 60 Wall St., New York, N. Y. 1904
DOLAND, J. J., 3132 W. 22d Ave., Denver, Colo. 1914
DOMONOSKE, ARTHUR B., 1172 C St., Hayward, Cal. 1913
DOOLEY, C. R., Manager, Educational Dept., Westinghouse Electric and Mfg. Co., and President of the Casino Technical Night School, East Pittsburgh, Pa. 1907
DORROH, J. H., Dean, School of Engineering, Professor of Civil Engineering, University of Mississippi, University, Miss. 1917
DORSEY, J. W., Assistant Professor of Electrical Engineering, University of Manitoba, Winnipeg, Man. 1909
DOUGHERTY, H. R., Professor and Head of Department of Mathematics, New York Military Academy, Cornwall-on-Hudson, N. Y. 1915
DOUGHERTY, N. W., Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1914
DOUGLAS, J. F. H., Assistant Professor of Physics, Texas A. & M. College, College Station, Tex. 1910
DOWELL, DAWSON, Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1917
DRAFFIN, JASPER O., Instructor in Mechanics, The Ohio State University, Columbus, O. 1917
DREYER, C. F., Head of the Department of Mechanical Engineering, Escola de Engenharia, Porto Alegre, Brazil 1913
DRINKER, H. S., President, Lehigh University, South Bethlehem, Pa. 1905
DROWNE, H. B., Engineer, Lane Construction Corporation, Meriden, Conn. 1908
DUCEY, E. J., Draftsman, Lecturer on Structural Design, Fort Pitt Bridge Works, Canonsburg, Pa. 1915
DUFF, C. M., Hallsville, Mo. 1912
DUFFEY, C. F., Professor of Science, University of Porto Rico, Rio

Piedras, P. R. 1916

DUFOUR, F. O., Engineer, with Stone & Webster, 147 Milk St., Boston, Mass. 1906

DUKES, R. G., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907

DUNCAN, M. M., Vice-President and General Manager, Cleveland Cliffs Iron Co., and Member Board of Control, Michigan College of Mines, Ishpeming, Mich. 1905

DUNHAM, HEBER, Assistant Professor of Engineering Drawing, New York University, New York, N. Y. 1914

DUNKIN, W. V., Chief Draftsman, Experimental Department, Deere & Co., 1656 30th Ave., Moline, Ill. 1908

DUNLAP, J. H., Associate Professor of Hydraulics and Sanitary Engineering, State University of Iowa, Iowa City, Ia. 1916

DUNMORE, G. B., Professor of Drafting, Whitman College, Walla Walla, Wash. 1911

DUNN, GANO, President, J. G. White Engineering Corporation, 43 Exchange Place, New York, N. Y. 1911

DUNN, HAROLD, Research Associate in Railway Engineering, Engineering Experiment Station, University of Ilinois, Urbana, Ill. 1917

DUNSTAN, E. V., Professor of Civil Engineering, George Washington University, Washington, D. C. 1909

DUPONT, T. C., Wilmington, Del. (Life Member) 1910

DURAND, W. F., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899

DURST, ROSS C., Instructor in Civil Engineering, Municipal University of Akron, Akron, O. 1918

DWIGHT, H. B., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1912

DYCHE, H. E., Associate Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

DYER, F. C., Lecturer in Mining Engineering, Faculty of Applied Science, University of Toronto, Toronto, Ont., Canada 1913

DYSART, P. M., Physics Dept., Schenley High School, Pittsburgh, Pa. 1911

EARLE, S. B., Director of the Engineering Department, and Professor of Mechanical Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1912

EASBY, WM., JR., Professor of Municipal Engineering, University of Pennsylvania, Philadelphia, Pa. 1908

EATON, J. S., Instructor in Mechanical Practice, University of Vermont, Burlington, Vt. 1914

EBAUGH, W. C., Consulting Chemist, 809 Kearns Bldg., Salt Lake City, Utah 1908

ECKEL, C. L., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1914
ECKHARD, G. F., Professor of Structural Engineering, University of Vermont, Burlington, Vt. 1910
EDDISON, W. BARTON, Chief Engineer, Surface Combustion Co., New York, N. Y. 1914
EDDY, C. L., Assistant Professor of Railway Engineering, Case School of Applied Science, Cleveland, O. 1910
EDDY, H. T., Dean of the Graduate School and Professor of Mathematics and Mechanics, Emeritus, College of Engineering, University of Minnesota, Minneapolis, Minn. 1893
EDGECOMB, R. E., Instructor in Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1912
EDMANDS, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. 1903
EDMONDSON, T. W., Professor of Mathematics, New York University, University Heights, New York, N. Y. 1917
EDWARDS, WM. M., Professor of Civil and Municipal Engineering, University of Alberta, Edmonton South, Alberta, Canada 1914
EDWARDS, W. W., Head of Dept. of Applied Mechanics, Wentworth Institute, Boston, Mass. 1913
EHLERS, H. E., Assistant Chief, Bureau of Engineering, Public Service Commission, Harrisburg, Pa. 1912
ELDRED, C. P., Professor of Electrical Engineering, Head of Dept., Georgia School of Technology, Atlanta, Ga. 1918
ELL, CARL S., Dean, Coöperative Engineering School, Northeastern College, Boston, Mass. 1917
ELLER, WILLARD H., Assistant in Electrical Engineering, University of Idaho, Moscow, Ida. 1917
ELLIOTT, B. G., Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. 1912
ELLIS, C. A., Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1916
ELLIS, FREDERICK, Instructor in Wood Working, Technical High School, Edmonton, Alberta, Canada 1912
ELLIS, W. T., Associate Professor of Machine Design and Applied Mechanics, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1910
ELY, JOHN A., Professor of Surveying and Engineering, St. Johns University, Shanghai, China 1914
EMERSON, WM. H., Dean and Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1912
EMORY, F. L., Professor of Mechanics and Applied Mathematics, West Virginia University, Morgantown, W. Va. 1894

EMRICK, PAUL S., Instructor in Electrical Engineering, Purdue University, LaFayette, Ind. 1914
EMSWILER, J. E., Associate Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1912
ENDSLEY, L. E., Professor of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907
ENGEL, GODFREY, Engineer of Construction, American Sugar Refining Co. of New York, Brooklyn, N. Y. 1915
ENGER, M. L., Associate Professor of Mechanics and Hydraulics, University of Illinois, Urbana, Ill. 1907
ENNIS, W. D., Professor of Mechanical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1907
ENO, F. H., Professor of Municipal Engineering, The Ohio State University, Columbus, O. 1907
ENSIGN, N. E., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915
ESTY, WILLIAM, Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1898
EVANS, F. H., Dean, College of Industrial Science, Toledo University, Toledo, O. 1907
EVANS, H. B., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. 1905
EVANS, H. S., Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1905
EWING, D. D., Associate Professor of Electrical Railway Engineering, Purdue University, LaFayette, Ind. 1910
EYRE, T. T., Assistant Professor of Mechanical Engineering, Purdue University, LaFayette, Ind. 1909
FAIG, J. T., Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, O. 1899
FARNHAM, C. S., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1908
FARWELL, S. P., Chief, Service Division, State Public Utilities Commission of Illinois, Springfield, Ill. 1911
FELGAR, JAS. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. 1912
FERGUSON, O. J., Acting Dean, Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1908
FERMIER, E. J., Professor of Mechanical Engineering, Texas A. and M. College, College Station, Texas 1903
FERNALD, R. H., Whitney Professor of Dynamical Engineering, University of Pennsylvania, Philadelphia, Pa. 1899

FERRIS, CHARLES E., Professor of Mechanical Engineering and Dean of Engineering, University of Tennessee, Knoxville, Tenn. 1913

FESSENDEN, E. A., Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1912

FETTER, FRANK A., Professor of Economics, Princeton University, Princeton, N. J. 1915

FINCH, F. R., Assistant Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1913

FINE, H. B., Professor of Mathematics and Dean of the Departments of Science, Princeton University, Princeton, N. J. 1909

FISH, E. H., New England Associate Editor, *American Machinist*, Worcester, Mass. 1912

FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1905

FISHER, GEO. H., Statistician, International Textbook Company, Scranton, Pa. 1911

FISHER, JAMES, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1899

FISK, IRA W., Assistant Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1914

FISK, WILBUR C., President, Hudson & Manhattan R. R., (Hudson River Tunnels), 30 Church St., New York, N. Y. 1914

FITTERER, J. C., Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. 1912

FITZGERALD, DESMOND, Consulting Engineer, 410 Washington St., Brookline, Mass. 1911

FLATHER, J. J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1893

FLEMING, V. R., Assistant Professor of Applied Mechanics, University of Illinois, Urbana, Ill. 1909

FLETCHER, A. B., Highway Engineer, Dept. of Engineering, State of California, Sacramento, Calif. 1913

FLETCHER, ROBERT, Professor of Civil Engineering, Director of Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1894

FLOWERS, A. E., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1910

FOCKE, T. M., Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1907

FOGG, R. J., Associate Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa. 1910

FOLK, J. THOMAS, Instructor in Mechanical Engineering Department, Louisiana Industrial Institute, Ruston, La. 1914

FOLWELL, A. P., Managing Editor, *Municipal Journal*, Montclair, N. J. 1916

FOLTZ, LEROY S., Assistant Professor of Electrical Engineering, Colorado Agricultural College, Ft. Collins, Colo. 1918

FOOTE, F. S., JR., Professor of Railroad Engineering, University of California, Berkeley, Calif. 1910

FORAKER, F. A., Assistant Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1914

FORD, ARTHUR H., Professor of Electrical Engineering, State University of Iowa, Iowa City, Ia. 1908

FORD, H. C., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1907

FORMAN, A. H., Professor of Electrical Engineering, West Virginia University, Morgantown, W. Va. 1916

FOSS, F. E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893

FOSS, MARTIN M., Secretary, McGraw-Hill Book Co., Inc., 239 W. 39th St., New York, N. Y. 1909

FOSTER, E. S., with the Packard Electric Co., Warren, Ohio 1911

FOULK, C. W., Professor of Analytical Chemistry, The Ohio State University, Columbus, O. 1913

FRANK, E. D. A., Mechanical Engineer, Marine Dept., C. H. Wheeler Mfg. Co., Philadelphia, Pa. 1917

FRANKFORTER, G. B., Professor of Chemistry and Dean of the School of Chemistry, University of Minnesota, Minneapolis, Minn. 1897

FRANKLIN, WILLIAM S., Massachusetts Institute of Technology, Cambridge, Mass. 1900

FRAZER, JOHN, Dean of the Towne Scientific School and Assistant Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa. 1914

FRAZIER, F. F., Assistant Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

FREAR, J. B., Instructor in Engineering Mechanics and Mathematics, University of Minnesota, Minneapolis, Minn. 1911

FREEDMAN, W. H., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1908

FREEMAN, E. H., Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

FREEMAN, P. J., Engineer of Tests, Pittsburgh Testing Laboratory, Pittsburgh, Pa. 1914

FREEMAN, W. EDWIN, Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

FRENCH, A. W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900
FRENCH, THOS. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1899
FRINK, F. G., Private Practice, Palo Alto, Calif. 1902
FROST, HARWOOD, President, Brown Portable Conveying Machinery Co., Room 840, 10 S. LaSalle St., Chicago, Ill. 1907
FRY, H. P., Assistant Professor of Mechanical Drawing, Mechanical Engineering Department, University of Pennsylvania, Philadelphia, Pa. 1914
FRY, LAWFORD, H., General Inspector, Standard Steel Works Co., Burnham, Pa. 1911
FULLAN, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915
FULLER, A. H., Professor of Civil Engineering, Lafayette College, Easton, Pa. 1901
FULLER, C. E., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907
FULTON, WM. L., Assistant Professor of Mathematics and Civil Engineering, University of Vermont, Burlington, Vt. 1912
FURMAN, FRANKLIN DER., Professor of Mechanism and Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1907
FURR, M. W., Instructor in Civil and Highway Engineering, Kansas State Agricultural College, Manhattan, Kans. 1917
GALPIN, S. L., Assistant Professor of Geology and Mining, Iowa State College, Ames, Ia. 1915
GARMAN, H. O., Chief Engineer of the Indiana Public Utilities Commission, 2062 N. Meridian St., Indianapolis, Ind. 1907
GARRETT, L. E., Associate Professor of Mathematics, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1910
GARVER, J. D., Assistant Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915
GARVER, N. B., Associate in Civil Engineering, University of Illinois, Urbana, Ill. 1910
GATES, A. O., Sales Engineer, Dodge Sales & Engineering Co., 814 Newhouse Bldg., Salt Lake City, Utah 1914
GAY, R. W., Professor of Civil Engineering, Mississippi A. and M. College, Agricultural College, Miss. 1907
GEARHART, W. S., State Highway Engineer, Topeka, Kans. 1915
GEORGE, R. D., Professor of Geology and State Geologist of Colorado, University of Colorado, Boulder, Colo. 1914
GEORGE, S. G., Professor of Mechanics of Engineering, College of Civil Engineering, Cornell University, Ithaca, N. Y. 1914

GIBSON, A. J., Professor of Engineering, University of Queensland, Brisbane, Queensland, Australia 1916
GIBSON, J. L., Dean of School of Arts and Sciences, Professor of Mathematics, University of Utah, Salt Lake City, Utah 1911
GIESECKE, F. E., Professor of Architecture, University of Texas, Austin, Tex. 1893
GILBRETH, F. B., President, F. B. Gilbreth, Inc., 77 Brown St., Providence, R. I. 1911
GILCHRIST, J. F., Vice President, Commonwealth Edison Co., Chicago, Ill. 1911
GILLESPIE, PETER, Associate Professor of Applied Mechanics, University of Toronto, Toronto, Ontario 1905
GILLETTE, H. P., Editor in Chief, *Engineering & Contracting*, 608 S. Dearborn St., Chicago, Ill. 1905
GILMORE, L. H., Professor of Physics, Throop College of Technology, Pasadena, Calif. 1912
GLADSON, W. N., Vice President, Dean, College of Engineering, University of Arkansas, Fayetteville, Ark. 1903
GODDARD, A. L., Supt. of Shops and Assistant Professor of Mechanical Practice, University of Wisconsin, Madison, Wis. 1912
GODDARD, R. W., Professor of Electrical Engineering, New Mexico College of A. & M. Arts, State College, N. Mex. 1915
GODFREY, HOLLIS, President, Drexel Institute; Commissioner, Advisory Commission of the Council of National Defense, Philadelphia, Pa. 1913
GOLDINGHAM, A. H., Sales Engineer, De la Vergne Machine Co., New York, N. Y. 1911
GOODENOUGH, G. A., Professor of Thermodynamics, University of Illinois, Urbana, Ill. 1900
GOSS, W. F. M., President, Railway Car Manufacturers Association, 61 Broadway, New York, N. Y. 1893
GOULD, F. A., City Engineer, Owosso, Mich. 1916
GOULDING, HERBERT, J., Associate Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1914
GRAHAM, P. H., Professor of Physics and Astronomy, Agnes Scott College, Decatur, Ga. 1916
GRAHAM, WM. P., Professor of Electrical Engineering and Dean of the College of Applied Science, Syracuse University, Syracuse, N. Y. 1912
GRAM, L. M., Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1913

GRANT, E. D., Associate Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1905
GRAY, ALEXANDER, Professor in charge of Electrical Engineering Department, Cornell University, Ithaca, N. Y. 1915
GREEN, CHAS. W., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. ... 1912
GREEN, R. M., Assistant Professor of Highway Engineering, A. & M. College of Texas, College Station, Tex. 1916
GREENE, A. M., JR., Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1903
GREENOUGH, MAURICE B., Instructor in Civil Engineering, Case School of Applied Science, Cleveland, Ohio..... 1912
GREGORY, W. B., Professor of Experimental Engineering, Tulane University; Irrigation Engineer, U. S. Department of Agriculture, New Orleans, La. 1907
GREINER, J. E., Consulting Engineer, Fidelity Bldg., Baltimore, Md. 1911
GREVE, F. W., JR., Assistant Professor of Hydraulic Engineering, Purdue University, LaFayette, Ind. 1912
GRISWOLD, ROBT. G., Chief Technologist, H. L. Doherty & Company, 60 Wall St., New York, N. Y. 1917
GROAT, B. F., Hydraulic Engineer, 2400 Oliver Bldg., Pittsburgh, Pa. 1899
GROETZINGER, CARL A., Instructor in Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1917
GRONDAHL, L. O., Associate Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
GROVER, N. C., Chief Hydraulic Engineer, United States Geological Survey, Washington, D. C. 1894
GRUMBEIN, J. B., Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1912
GRUNDHOEFFER, E. F., The Pennsylvania State College, State College, Pa. 1915
GUMMERE, H. V., Director of Evening Courses and Professor of Mathematics, Drexel Institute, Philadelphia, Pa. 1914
GUNTHER, CHAS. O., Professor of Mathematics, Stevens Institute of Technology, Hoboken, N. J. 1907
GWIAZDOWSKI, A. S., Associate Professor of Mechanical Engineering, Toledo University, Toledo, O. 1917
HAGERTY, C. T., Professor of Mathematics and Astronomy, New Mexico College of A. & M. Arts, State College, New Mexico.. 1911
HAIGLER, CHAS. E., Professor of Mathematics, Wentworth Institute, Boston, Mass. 1912
HALE, R. S., Supt., Special Research Dept. Edison Illuminating Company of Boston, Boston, Mass. 1916

HALL, ARTHUR A., Associate Professor of Applied Electricity, West Virginia University, Morgantown, W. Va. 1918

HALL, JAMES A., Assistant Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914

HALL, P. R., Instructor in Iron Working, University of Pennsylvania, Philadelphia, Pa. 1912

HALL, W. H., Assistant Professor of Engineering, Trinity College, Durham, N. C. 1917

HALLOCK, J. W., Director, Co-operative Work, University of Pittsburgh, Pittsburgh, Pa. 1915

HALLSTED, J. C., Engineer, Robert W. Hunt Co., Chicago, Ill. 1910

HALSEY, F. A., Commissioner, American Institute of Weights and Measures, New York, N. Y. 1907

HALSEY, W. D., Instructor in Mechanical Engineering, George Washington University, Washington, D. C. 1917

HAM, WM. R., Professor of Physics, Pennsylvania State College, State College, Pa. 1914

HAMERSCHLAG, A. A., President, Carnegie Institute of Technology, Pittsburgh, Pa. 1903

HAMILTON, EDW. P., Secretary. John Wiley & Sons., Inc., 432 Fourth Ave., New York, N. Y. 1914

HAMILTON, GEO. A., 532 Morris Ave., Elizabeth, N. J. 1911

HAMILTON, J. McC., President, Montana State College of A. & M. Arts, Bozeman, Mont. 1912

HAMILTON, J. O., Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1910

HAMLIN, HANNIBAL L., Division Head, Boston Industrial School for Boys, Boston, Mass. 1912

HAMMER, M. R., Associate Professor of Drawing, Northwestern University, Evanston, Ill. 1917

HAMMOND, H. P., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1916

HANCOCK, CHARLES, Professor of Mechanical Engineering, University of Virginia, University, Va. 1915

HANEY, J. W., Instructor in Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1916

HANNA, U. S., Associate Professor of Mathematics, Indiana University, Bloomington, Ind. 1915

HARDING, C. F., Professor of Electrical Engineering and Director of the Electrical Laboratories, Purdue University, LaFayette, Ind. 1908

HARING, ALEXANDER, Professor of Bridge and Railway Engineering, New York University, New York, N. Y. 1907

HARPER, A. C., Associate in Machine Design, University of Illinois, Urbana, Ill. 1911

HARPER, C. H., Instructor in Drawing and Mathematics, Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa. 1909
HARRINGTON, J. L., Consulting Engineer, Harrington, Howard & Ash, Kansas City, Mo. 1903
HARRIS, C. L., Assistant Professor of Architectural Engineering, The Pennsylvania State College, State College, Pa. 1914
HARRIS, F. C., Instructor in Architecture and Drawing, Kansas State Agricultural College, Manhattan, Kans. 1910
HARRIS, L. H., Professor and Head of the Department of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1912
HARRIS, WALTER B., Professor of Geodesy, Princeton University, Princeton, N. J. 1914
HARTER, G. A., Professor of Mathematics and Physics, Delaware College, Newark, Del. 1908
HARTMANN, F. M., Professor of Electrical and Mechanical Engineering, Cooper Union, New York, N. Y. 1908
HARVEY, J. W., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1916
HASEMAN, CHARLES, Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev. 1914
HASKELL, E. E., Dean of the College of Civil Engineering, Cornell University, Ithaca, N. Y. 1907
HASKELL, F. E., Assistant Examiner, U. S. Patent Office, Washington, D. C. 1914
HASKELL, M. W., Professor of Mathematics, University of California, Berkeley, Cal. 1910
HASTINGS, H. B., Professor of Applied Economics, Reed College, Portland, Ore. 1908
HATJIDAKIS, GEORGE, Piraeus, Greece 1913
HATT, W. K., Professor of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, LaFayette, Ind. 1895
HAUSMANN, ERICH, Associate Professor of Physics and Electrical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914
HAVENS, WM. W., Civil Engineer, 2453 Valentine Ave., New York, N. Y. 1914
HAVILAND, EDWIN, With the Seattle Lighting Co., Seattle, Wash.. 1902
HAWES, J. H., Junior Master, Dorchester High School, Dorchester Center, Mass. 1900
HAWLEY, J. B., Consulting Engineer, F. and M. Bank Bldg., Ft. Worth, Tex. 1911
HAY, E. D., Professor of Drawing and Machine Design, Oshkosh Normal School, Oshkosh, Wis. 1915

HAYES, THORNTON, 7224 Idlewild St., Pittsburgh, Pa. 1915
HAYFORD, J. F., Director of the College of Engineering, Northwestern University, Evanston, Ill. 1905
HAYWARD, H. W., Associate Professor of Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1904
HAZELTINE, L. A., Acting Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1910
HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1907
HEDRICK, E. R., Professor of Mathematics, University of Missouri, Columbia, Mo. 1910
HEDRICK, I. G., Senior Member of Hedrick & Hedrick, Consulting Engineers, 506 Inter State Bldg., Kansas City, Mo. 1903
HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1913
HELMAN, M. P., Instructor in Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1914
HENDRY, W. S., Instructor in Mechanic Arts, University of Arizona, Tucson, Ariz. 1915
HENLEY, W. W., Professor of Mechanic Arts, University of Arizona, Tucson, Ariz. 1907
HENSHALL, P. P., Instructor in Machine Shop, Pennsylvania State College, State College, Pa. 1915
HERGET, A. M., Professor of Drawing and Mechanic Arts, Louisiana State University, Baton Rouge, La. 1903
HERING, RUDOLPH, Hydraulic and Sanitary Consulting Engineer, 170 Broadway, New York, N. Y. 1911
HERSCHEL, W. H., Assistant Physicist, Bureau of Standards, Washington, D. C. 1911
HERTY, C. H., Editor, *Journal of Industrial and Engineering Chemistry*, 35 East 41st St., New York, N. Y. 1912
HESSE, G. ERNEST, Text Book Publisher, 26 Rollins Place, Yonkers, N. Y. 1914
HEWERDINE, T. S., Civil Engineer, Olivia, Minn. 1907
HEWITT, C. E., Dean of Engineering, New Hampshire College of A. & M. Arts, Durham, N. H. 1915
HIBBARD, H. WADE, Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1896
HICKERSON, T. F., Associate Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914
HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. 1906

HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1908
HIGGINS, CHAS. H., Consulting Engineer; Secretary Princeton Engineering Association, 30 Church St., New York, N. Y. 1912
HILL, CLIFTON R., Assistant Professor of Civil Engineering, University of Nevada, Reno, Nev. 1918
HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894
HILL, WM. W., Professor of Electrical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1912
HILLEBRAND, W. A., 345 Kellog Ave., Palo Alto, Calif. 1910
HILLEGASS, H. H., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1916
HIROI, ISAMI, Professor of Civil Engineering, Tokyo Imperial University, College of Engineering, Tokyo, Japan..... 1910
HITCHCOCK, F. A., Professor of Civil Engineering, New Mexico State College of A. & M., State College, N. Mex. 1913
HITCHCOCK, GEO. G., Professor of Physics, Pomona College, Claremont, Calif. 1911
HITCHCOCK, G. P., Vice-Chairman of Faculty and Assistant to the Secretary, Pratt Institute, Brooklyn, N. Y..... 1914
HITCHCOCK, W. A., Assistant Professor of Civil Engineering, University of Wyoming, Laramie, Wyo. 1915
HIXON, C. R., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910
HOAD, W. C., Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. 1907
HODGKINS, H. L., Dean of the College of Engineering and Professor of Mathematics, George Washington University, Washington, D. C. 1908
HODSON, L. C., Associate Professor of Mining Engineering, Iowa State College, Ames, Ia. 1915
HOEFER, E. G., Professor of Mechanical and Electrical Engineering, University of Wyoming, Laramie, Wyo. 1910
HOERNING, CARLOS, Professor of Mechanical Engineering, Universidad de Chile, Santiago, Chile. 1912
HOEXTER, S. J., with Esselstyn-Murphy Co., Engineers, 206 Telegraph Bldg. Detroit, Mich. 1914
HOFMANN, G. A., Professor of Mechanical Engineering, St. Mary College, Dayton, O. 1916
HOFMAN, H. O., Professor of Metallurgy, Massachusetts Institute of Technology and Harvard University, Cambridge, Mass. ... 1894
HOFFMAN, A. H., Head, Dept. of Agricultural Engineering, New Mexico State College, State College, N. M. 1907

HOFFMAN, J. D., Head, Dept. of Practical Mechanics; Professor of Practical Mechanics; Director, Laboratories of Practical Mechanics, Purdue University, LaFayette, Ind. 1907

HOGG, WM. T., Instructor in Civil Engineering, The Tulane University, New Orleans, La. 1914

HOLBROOK, E. A., Supervising Mining Engineer and Metallurgist, U. S. Bureau of Mines, Urbana, Ill. 1912

HOLDEN, C. A., Professor of Civil Engineering, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1901

HOLDER, F. J., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1912

HOLLIS, I. N., President, Worcester Polytechnic Institute, Worcester, Mass. 1894

HOLLISTER, S. C., Research Engineer, Corrugated Bar Company, Buffalo, N. Y. 1916

HOLLISTER, V. L., Associate Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1911

HOLMAN, W. F., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1912

HOLMES, PAUL E., Assistant Instructor, Kansas State Agricultural College, Manhattan, Kans. 1917

HOOD, GEO. J., Professor of Engineering Drawing, University of Kansas, Lawrence, Kans. 1914

HOOD, O. P., Chief Mechanical Engineer, U. S. Bureau of Mines, In charge Pittsburgh Station, Pittsburgh, Pa. 1893

HOOPER, E. G., Assistant Engineer, Dept. Water Supply, Gas and Electricity, 417 East 236th St., New York, N. Y. 1909

HOOPER, W. L., Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1907

HOSKINS, L. M., Professor of Applied Mathematics, 365 Lincoln Ave., Palo Alto, Calif. 1893

HOSMER, GEO. L., Associate Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1914

HOTCHKISS, HOMER J., Instructor in Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1914

HOUGHTON, C. E., Professor of Mechanics, New York University, New York, N. Y. 1908

HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo. 1913

HOUSTON, HALE, Professor of Civil Engineering, Clemson A. & M. College, Clemson College, S. C. 1914

HOWARD, J. W., Assistant Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907

HOWE, C. D., Chief Engineer, Grain Commission for Canada, Fort William, Ontario, Canada 1912
HOWE, C. S., President of the Case School of Applied Science, Cleveland, O. 1902
HOWE, LEON B., Professor of Drawing, College of Applied Science, Syracuse University, Syracuse, N. Y. 1917
HOWE, M. A., Emeritus Professor of Civil Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1894
HOWER, H. S., Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914
HOXTON, L. G., Professor of Physics, University of Virginia, University, Va. 1915
HUBBARD, A. K., 2 Highland Park, Batavia, N. Y. 1907
HUDSON, C. W., Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1909
HUGHES, H. J., Professor of Civil Engineering, Harvard University, 1-337 Massachusetts Institute of Technology, Cambridge, Mass. 1907
HUME, ALFRED, Vice-Chancellor, Dean, College of Liberal Arts, and Professor of Mathematics, University of Mississippi, University, Miss. 1894
HUMPHREYS, A. C., President, Stevens Institute of Technology, Hoboken, N. J. 1903
HUMPHREYS, D. C., Dean of the School of Applied Science and Professor of Civil Engineering, Washington and Lee University, Lexington, Va. 1893
HUND, AUGUST, Research Engineer, 2314 Channing Way, Berkeley, Calif. 1914
HUNT, CHAS. WARREN, Secretary, the American Society of Civil Engineers, 33 West 39th St., New York, N. Y. 1911
HUNT, ROBERT W., Senior Member of Robert Hunt & Co., Chicago, Ill. 1913
HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1904
HUNTINGTON, E. V., Associate Professor of Mathematics, Harvard University, Cambridge, Mass. 1906
HUNTINGTON, W. C., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914
HUTCHINS, R. E., Assistant Professor of Mechanics, State University of Iowa, Iowa City, Ia. 1912
HYDE, A. L., Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904
HYDE, E. P., Director, Nela Research Laboratory, National Lamp Works of General Electric Co., Nela Park, Cleveland, O. 1911

INGRAM, E. L., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. 1908

IVES, F. W., Assistant Professor of Agricultural Engineering, The Ohio State University, Columbus, O. 1910

IVES, H. C., Professor of Railroad Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1901

IYER, R. P., Supervisor, Public Works Department, Teruverambur P. O., Trechwofoltz District, Deccan, India..... 1910

JABLOW, CHARLES, Associate Professor of Mechanical Engineering, in charge of Department, Oklahoma A. & M. College, Stillwater, Okla. 1910

JACKSON, DUGALD C., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. 1893

JACKSON, JOHN PRICE, Commissioner, Dept. of Labor and Industry, Commonwealth of Pennsylvania, Harrisburg, Pa. 1894

JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., and Special Lecturer in Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J. 1893

JACOBY, H. S., Professor of Bridge Engineering, Cornell University, 105 Harvard Place, Ithaca, N. Y. 1894

JAMES, J. H., Professor of Chemical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

JAMES, R. L., Assistant Professor of Engineering Drawing, University of North Carolina, Chapel Hill, N. C. 1914

JAMES, W. G., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1917

JAMESON, J. M., Vice President, Girard College, Philadelphia, Pa. 1903

JENKINS, D. R., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1912

JENSON, JOSEPH, Consulting Engineer, Valury, Nev. 1903

JEWETT, A. C., 410 Whalley Ave., New Haven, Conn. 1907

JEWETT, F. B., Chief Engineer, Western Electric Co., 463 West St., New York, N. Y. 1914

JOBSON, A. J., General Superintendent, Wyoming Electric Co., Casper, Wyo. 1910

JOHNSON, A. R., Assistant Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. 1909

JOHNSON, C. A., Oakmont, Pa. 1915

JOHNSON, E. A., Head of the Foundry Dept., Wentworth Institute, Boston, Mass. 1913

JOHNSON, F. ELLIS, Assistant Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1916

JOHNSON, L. J., Professor of Civil Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1898
JOHNSON, PHELPS, President, Dominion Bridge Co.; President, St. Lawrence Bridge Co., Montreal, Canada 1910
JOHNSON, WM. F., Philadelphia Electric Co., Philadelphia, Pa. ... 1913
JOHNSTON, C. T., Professor of Geodesy and Surveying, University of Michigan, Ann Arbor, Mich. 1913
JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907
JONES, BASSETT, JR., Consulting Engineer, 101 Park Ave., New York, N. Y. 1907
JONES, C. R., Dean of the College of Engineering and Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1895
JONES, E. C., Instructor in Shop Practice, Kansas State Agricultural College, Manhattan, Kans. 1917
JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915
JONES, F. R., Mechanical and Electrical Engineer, 1702 Melrose Place, Knoxville, Tenn. 1893
JONES, G. R., Associate Professor of Civil Engineering, The Johns Hopkins University, Baltimore, Md. 1914
JONES, J. O., Assistant Professor of Hydraulics, University of Kansas, Lawrence, Kans. 1916
JORDAN, H. H., Associate in General Engineering Drawing, University of Illinois, Urbana, Ill. 1915
JUDD, HORACE, Associate Professor of Experimental Engineering, Ohio State University, Columbus, O. 1907
KAMRASS, BENJAMIN, Assistant Engineer, Engineering Experiment Station, Iowa State College, Ames, Ia. 1917
KANE, S. M., Instructor in Metal Work and Chief Engineer, University of Washington, Seattle, Wash. 1918
KARAPETOFF, VLADIMIR, Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1909
KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. 1902
KAY, EDGAR B., Consulting Engineer, Tuscaloosa, Ala. 1898
KEELY, R. R., Consulting Engineer, 10 Palmer Ave., Plainfield, N. J. 1910
KEGERREIS, ROY, Graduate Student, Columbia University, New York, N. Y. 1913
KELLER, A. R., 2066 Lanihuli Drive, Honolulu, T. H. 1910
KELLER, J. O., Instructor in Industrial Engineering, The Pennsylvania State College, State College, Pa. 1916

KELLEY, HOWARD G., President, Grand Trunk Railway System, Montreal, P. Q., Canada. 1910

KELLOGG, E. W., Research Laboratory, General Electric Co., Schenectady, N. Y. 1913

KENERSON, W. H., Professor of Mechanical Engineering, Brown University, Providence, R. I. 1903

KENISON, ERVIN, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1912

KENNEDY, F. L., Associate Professor of Engineering Drawing, Harvard University, Cambridge, Mass. 1904

KENNELLY, A. E., Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916

KENT, H. L., Principal, School of Agriculture, and Associate Professor of Education, Kansas State Agricultural College, Manhattan, Kans. 1915

KENT, J. M., Instructor in Steam and Electricity, Manual Training High School and Polytechnic Institute Night School, Kansas City, Mo. 1903

KENT, WILLIAM, Consulting Engineer, 57 So. Fullerton Ave., Montclair, N. J. 1894

KEOWN, R. McA., Assistant Professor of Machine Design, University of Wisconsin, Madison, Wis. 1910

KERR, E. W., Professor of Mechanical Engineering, Louisiana State University, Baton Rouge, La. 1910

KETCHUM, MILO S., Dean of the College of Engineering and Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1903

KIDD, J. W., Professor of Engineering, Texas State School of Mines and Metallurgy, Fort Bliss, Tex. 1908

KIEFER, P. J., Instructor in Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1917

KIMBALL, D. S., Professor of Machine Design and Industrial Engineering, Cornell University, Ithaca, N. Y. 1915

KING, CARL, Instructor in Materials of Construction, Wentworth Institute, Boston, Mass. 1912

KING, E. E., Professor of Railway Engineering, Iowa State College, Ames, Ia. 1908

KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913

KING, R. S., Professor of Experimental Enginering, Georgia School of Technology, Atlanta, Ga. 1904

KINGSBURY, ALBERT, Consulting Engineer, 219 Stratford Ave., Pittsburgh, Pa. 1893

KINSEY, A. S., Supervising Instructor in Shop Practice, Stevens Institute of Technology, Hoboken, N. J. 1912

KINSLEY, CARL, Associate Professor of Physics, University of Chicago, Chicago, Ill. 1903

KIRBY, R. S., Assistant Professor of Drawing and Descriptive Geometry, Sheffield Scientific School, Yale University, New Haven, Conn. 1911

KIRCHNER, W. H., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910

KIRKHAM, J. E., Professor of Structural Engineering, Iowa State College, Ames, Ia. 1915

KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1908

KNAPP, E. R., Professor of Descriptive Geometry and Mechanical Drawing, Stevens Institute of Technology, Hoboken, N. J..... 1912

KNAPP, W. A., Assistant Professor of Structural Engineering, Purdue University, LaFayette, Ind. 1914

KNEALE, R. D., Professor of Highway Engineering, Georgia School of Technology, Atlanta, Ga. 1912

KNIGHT, C. D., Assistant Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907

KNIGHT, W. A., Associate Professor of Machine Shop Practice, Ohio State University, Columbus, O. 1907

KNOCH, JULIUS J., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1898

KNOETTGE, CARL H., Instructor in Civil Engineering, University of Colorado, Boulder, Col. 1918

KNOWLES, MORRIS, Director, Department of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915

KONDO, SENTARO, Civil Engineer, No. 27 Tatsuokacho Hongo, Tokyo, Japan 1911

KONDO, TORAGORO, Chief of Technical Division, Public Works Bureau, Home Department, Tokyo, Japan (Life Member) .. 1911

KREWSON, R. H., Instructor in Iron Working, University of Pennsylvania, Philadelphia, Pa. 1912

KROTZER, FRED. W., Instructor in Electricity, Central Continuation School, Y. M. C. A., Milwaukee, Wis. 1915

KROTZER, J. EARL, Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1918

KUNZE, E. J., Professor of Mechanical Engineering, in charge of Department, Oklahoma A. & M. College, Stillwater, Okla. 1907

LAGERGREN, J. T., Lecturer in Machine Design, University of Toronto, Toronto, Ont., Canada. 1912
LAMBERT, B. J., Professor of Structural Engineering, State University of Iowa, Iowa City, Ia. 1907
LAMBERT, P. A., Professor of Mathematics, Lehigh University, South Bethlehem, Pa. 1897
LAMBIE, J. S., Associate Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
LANDRETH, OLIN H., Professor of Civil Engineering, Union University, Schenectady, N. Y. 1893
LANGILLE, H. B., Assistant Professor of Machine Design and Mechanical Drawing, University of California, Berkeley, Cal. 1915
LANGSDORF, A. S., Dean of the Schools of Engineering and Architecture and Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1903
LANIER, A. C., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915
LAPHAM, J. R., Assistant Professor of Civil Engineering, George Washington University, Washington, D. C. 1912
LAPHAM, J. S., Adjunct Professor of Experimental Engineering, University of Virginia, University, Va. 1915
LARSON, G. L., Associate Professor of Steam and Gas Engineering, 27 Lathrop St., Madison, Wis. 1911
LAWRANCE, C. H., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1906
LAWRENCE, C. W., Professor of Civil Engineering, University of Southern California, Los Angeles, Cal. 1909
LAWRENCE, R. R., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907
LAWS, F. A., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. 1909
LAWTON, E. E., Associate Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1910
LECONTE, J. N., Professor of Engineering Mechanics, University of California, Berkeley, Calif. 1913
LEETE, J. H., Director, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1907
LEKBERG, C. H., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1912
LELAND, O. M., Assistant Professor of Astronomy and Geodesy and Head of Dept. of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. 1908
LENDALL, H. N., Assistant Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1912

LEPAGE, CLIFFORD B., Assistant Professor of Physics, Stevens Institute of Technology, Hoboken, N. J. 1908
LESTER, O. C., Professor of Physics, University of Colorado, Boulder, Colo. 1912
LETELLIER, L. S., Professor of Drawing, The Citadel, The Military College of South Carolina, Charleston, S. C. 1912
LEUTWILER, O. A., Professor of Machine Design, University of Illinois, Urbana, Ill. 1906
LEWIS, F. J., Instructor in Civil Engineering, The Rice Institute, Houston, Tex. 1916
LEWIS, J. F., Electrical and Railway Engineer, 505 Brinton St., Germantown, Philadelphia, Pa. (Life Member) 1913
LIEB, J. W., Vice-President, The New York Edison Co., 124 E. 15th St, New York, N. Y. 1911
LIGHT, J. J., Instructor in Mechanical Engineering, Pennsylvania State College, State College, Pa. 1917
LILLY, S. B., Assistant Plant Engineer, Merchant Shipbuilding Corporation, Swarthmore, Pa. 1913
LINCOLN, P. M., Director of the Dept. Electrical Engineering, University of Pittsburgh; Commercial Engineer, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1911
LINDEMANN, C. A., Professor of Applied Mathematics, Bucknell University, Lewisburg, Pa. 1905
LINVILLE, C. P., Metallurgical Engineer American Smelting & Refining Co., Perth Amboy, N. J. 1904
LITTLE, C. N., Dean of the College of Engineering and Professor of Civil Engineering, University of Idaho, Moscow, Idaho.... 1907
LITTLE, G. T., Instructor, Portland High School, Electrical Department, Portland, Maine 1916
LOCKWOOD, E. H., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908
LODGE, W. L., Associate Professor of Physics, Michigan Agricultural College, East Lansing, Mich. 1908
LOGAN, D. M., Assistant in Mechanical Drawing, University of Oklahoma, Norman, Okla. 1916
LONG, J. J., Assistant Professor of Civil Engineering, University of Cincinnati, Cincinnati, O. 1911
LONGYEAR, J. M., Member Board of Control, Michigan College of Mines, Marquette, Mich. 1905
LORY, C. A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOVE, A. C., Professor of Railway Engineering, Texas A. & M. College, College Station, Texas 1900

LUBY, WM. A., Head of Dept. of Mathematics, Kansas City Polytechnic Institute, Kansas City, Mo. 1914

LUCKE, C. E., Professor of Mechanical Engineering and Head of Dept., Columbia University, New York, N. Y. 1906

LUDERITZ, JOAO, Engenheiro Chefo-Instituto Technico Professional, Porto Alegre, Brazil 1909

LUDY, L. V., Professor of Experimental Engineering, Purdue University, LaFayette, Ind. 1903

LUND, JACOB, Supt. Heat and Power Dept., Kansas State Agricultural College, Manhattan, Kans. 1910

LUNDGREN, LEONARD, District Engineer, U. S. Forest Service, Beck Bldg., Portland, Ore. 1907

LUTHER, H. B., Instructor in Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1914

LYLE, WM. T., Professor of Municipal Engineering, Lafayette College, Easton, Pa. 1914

LYMAN, RICHARD R., Professor of Civil Engineering, University of Utah, Salt Lake City, Utah 1908

LYNCH, D. E., Instructor in Forging, Foreman, Blacksmith Shop, Kansas State Agricultural College, Manhattan, Kans. 1915

MCADAMS, EDWARD E., Associate Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1918

MCALISTER, E. H., Professor of Mechanics, University of Oregon, Eugene, Ore. 1911

MCALLISTER, A. S., Electrical Engineer, Engineers' Club, New York, N. Y. 1911

MCCAFFERY, R. S., Professor of Metallurgy, University of Wisconsin, Madison, Wis. 1911

MCCANDLISS, E. S., Assistant Professor of Civil Engineering, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1915

MCCANDLISS, L. C., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

MCCANN, WM. R., Assistant Purchasing Officer, Emergency Fleet Corporation, Washington, D. C. 1912

MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. 1902

MCCLELLAND, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912

MCCLELLAND, J. F., Professor of Mining Engineering, Yale University, New Haven, Conn. 1912

MCCLINTIC, H. H., Vice-President and General Manager, McClintic-Marshall Construction Co., Pittsburgh, Pa. 1910

McComb, Dana, Q., Testing and Inspecting Engineer, 215 Clark Bldg., Birmingham, Ala. 1916
McCormick, C. M., Instructor in Electrical Engineering, University of Colorado, Boulder, Colo. 1917
McCormick, E. B., Mechanical Engineer, Office of Public Roads and Rural Engineering, U. S. Dept. of Agriculture, Washington, D. C. 1908
McCormick, S. B., Chancellor, University of Pittsburgh, Pittsburgh, Pa. 1914
McCullough, F. M., Associate Professor of Civil Enginering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
McDaniel, A. B., Professor of Civil Engineering, Union College, Schenectady, N. Y. 1907
McDonald, P. B., Instructor in Engineering English, University of Colorado, Boulder, Colo. 1917
McEachnon, K. B., Professor of Electrical Engineering, Ohio Northern University, Ada, O. 1916
McFarland, David F., Associate Professor of Applied Chemistry, University of Illinois, Urbana, Ill. 1914
McGowan, John, Professor of Applied Mechanics, University of Toronto, Toronto, Ont., Canada 1914
McGrath, E. L., Instructor in Engineering Mathematics, University of Colorado, Boulder, Colo. 1916
McKergow, C. M., Associate Professor of Mechanical Engineering, McGill University, Montreal, Canada. 1913
McKibben, F. P., Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa. 1904
McLeod, D. F., Assistant Professor of Civil Engineering, University of Mississippi, University, Miss. 1915
McMillin, Emerson, Chairman, Board of Directors, American Light & Traction Co., and President of many Companies, Ramsey, N. J. (Life Member) 1911
McNair, F. W., President, Michigan College of Mines, Houghton, Mich. 1897
McNair, G. B., Assistant Professor of Electrical Engineering, Colorado College, Colorado Springs, Colo. 1914
McNaugher, D. W., Partner, Robert W. Hunt & Co., Engineers, Pittsburgh, Pa. 1910
McNown, W. C., Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915
McRae, A. L., Director and Professor of Physics, Missouri School of Mines, Rolla, Mo. 1907
Macarthur, J. R., Professor of English, Kansas State Agricultural College, Manhattan, Kans. 1915

MacCracken, J. H., President, Lafayette College, Easton, Pa.... 1913
MacDonald, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo..... 1914
Mack, J. G. D., Professor of Machine Design, University of Wisconsin, Madison, Wis. 1901
MacKavanaugh, T. J., Associate Professor of Electrical Engineering, Catholic University of America, Washington, D. C. 1916
MacKay, H. M., Professor of Civil Engineering, McGill University, Montreal, Quebec, Canada 1914
Mackenzie, C. J., Professor of Civil Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915
Maclaurin, R. C., President, Massachusetts Institute of Technology, Cambridge, Mass. 1909
MacNaughton, Edgar, Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1916
MacNaughton, Jas., Vice-President and General Manager, Calumet and Hecla Mines; Member Board of Control, Michigan College of Mines, Calumet, Mich. 1905
MacNutt, Barry, Professor of Physics, Lehigh University, South Bethlehem, Pa. 1910
Macomber, G. S., Assistant Electrical Engineer, Bureau of Standards, Washington, D. C. 1904
Magnusson, C. E., Professor of Electrical Engineering, University of Washington, Seattle, Wash..... 1907
Magruder, Wm. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. 1893
Main, C. T., Consulting and Constructing Engineer, 14 Herrick St., Winchester, Mass. 1911
Mallory, Francis, Professor of Physics and Electrical Engineering, Virginia Military Institute, Lexington, Va. 1912
Mallory, W. F., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1915
Mann, C. A., Associate Professor of Chemical Engineering, Iowa State College, Ames, Ia. 1917
Mann, C. L., Professor of Civil Engineering, North Carolina State College of Agriculture and Engineering, West Raleigh, N. C. 1917
Mann, C. R., The Carnegie Foundation for the Advancement of Teaching, 576 Fifth Ave., New York, N. Y. 1914
Mann, C. V., Instructor in Engineering Mathematics, University of Colorado, Boulder, Colo. 1916
Marburg, Edgar, Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1894
Mark, Robert M., Civil Engineer, Highways, Spencerport, Monroe Co., N. Y. 1909

MARKER, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, Columbus, O. 1913

MARKS, L. S., Professor of Mechanical Engineering, Harvard University, and Massachusetts Institute of Technology, Cambridge, Mass. 1909

MARQUIS, F. W., Professor of Steam Engineering, Ohio State University, Columbus, Ohio 1910

MARR, ROBT. A., Dean of the Engineering Department, Virginia Polytechnic Institute, Blacksburg, Va. 1912

MARSTON, ANSON, Dean of the Division of Engineering and Director of the Engineering Experiment Station, and Professor of Civil Engineering, Iowa State College, Ames, Ia. 1894

MARTEL, R. R., Assistant Engineer, Sayles Finishing Plants, Saylesville, R. I. 1915

MARTENIS, J. VAN S., Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1908

MARTIN, L. A., JR., Dean and Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. 1907

MARTIN, T. C., Secretary, The National Electric Light Association, 29 West 39th St., New York, N. Y. 1909

MARTIN, W. H., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1913

MARTINSON, C. G., Assistant Professor of Mechanical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1918

MARVIN, HENRY H., Professor of Physics, Tufts College, Tufts College, Mass. 1914

MARX, C. D., Professor of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. 1893

MASON, A. J., Engineer, Chicago Railway Exchange, 5715 Woodlawn Ave., Chicago, Ill. 1912

MATHESON, K. G., President, Georgia School of Technology, Atlanta, Ga. 1916

MATHEWS, H. B., Professor of Physics, South Dakota State College of A. and M. Arts, Brookings, S. D. 1896

MATHEWS, RAYMOND, Assistant Professor of Civil Engineering, University of Mississippi, University, Miss. 1918

MATHEWS, R. M., Instructor in Mathematics, Riverside Jr. College, Riverside, Calif. 1917

MATHEWSON, JAS. S., Engineer in Forest Products, U. S. Forest Products Laboratory, Madison, Wis. 1914

MATTE, LUIS, Civil Engineer, Agustinas 1319, Santiago, Chile ... 1917

MATTHEWS, ROBERTSON, Assistant Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

MAURER, E. R., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1897

MAVITY, V. T., Instructor in Electrical Engineering, University of Cincinnati, Cincinnati, O. 1917

MAY, CHAS. C., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1912

MEAD, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908

MEASE, J. A., Associate Professor of Machine Design, Pennsylvania State College, State College, Pa. 1909

MEEKER, W. H., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1908

MEES, C. L., President, Rose Polytechnic Institute, Terre Haute, Ind. 1894

MÉHELY, KÁLMÁN, Director of the Society of Hungarian Ironworks and Machinery Factories, Budapest, Hungary 1909

MEIKLEJOHN, ROBERT, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, O. 1909

MELLER, H. B., Dean, School of Mines, Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1915

MENDENHALL, T. C., 329 N. Chestnut St., Ravenna, O. (Honorary Member) 1895

MERRILL, J. F., Director of the Utah State School of Mines and Engineering; Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah 1907

MERRILL, J. L., Instructor in Mechanical Drawing, University of Colorado, Boulder, Colo. 1915

MERRIMAN, MANSFIELD, 1071 Madison Ave., New York, N. Y. 1893

MEYER, ADOLPH F., Associate Professor of Hydraulic Engineering, University of Minnesota, Minneapolis, Minn. 1913

MICKEY, CLARK E., Associate Professor of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1912

MICKLE, FRANK A., Instructor in Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1917

MILLAR, A. V., Assistant Professor of Drawing, University of Wisconsin, Madison, Wis. 1914

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. 1907

MILLER, HUGH, Lecturer in Civil Engineering, Rice Institute, Houston, Tex. 1909

MILLER, H. W., Assistant Dean, College of Engineering, and Assistant Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912

MILLER, N. C., Supervisor, Training Schools, Chester Shipbuilding Co., Chester, Pa. 1914
MILLER, S. O., Assistant Professor of Engineering Drafting, Columbia University, New York, N. Y. 1917
MISER, W. L., Assistant Professor of Mathematics, University of Arkansas, Fayetteville, Ark. 1914
MITCHAM, G. N., Professor of Civil Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1906
MITCHELL, LOUIS, Associate Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913
MOLBY, F. A., Assistant Professor of Physics, Indiana University, Bloomington, Ind. 1910
MONROE, W. K., Manager, Engineering Dept., The Brown Hoisting Machinery Co., Cleveland, O. 1911
MOODY, L. F., Consulting Engineer, I. P. Morris Dept., Wm. Cramp & Sons, Ship and Engineering Building Co., Philadelphia, Pa. 1912
MOOMAW, DALTON, Road Engineer, Cuyahoga Co., 1315 Lakeview Road, N. E., Cleveland, O. 1911
MOORE, F. C., Associate Professor of Mathematics, New Hampshire College of A. & M. Arts, Durham, N. H. 1915
MOORE, G. R., Civil Engineer, Manasquan, N. J. 1913
MOORE, H. F., Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905
MOORE, STANLEY H., Director of Mechanic Arts, McKinley High School, St. Louis, Mo. 1902
MORE, CHAS. C., Professor of Civil Engineering, University of Washington, Seattle, Wash. 1901
MORECROFT, J. H., Associate Professor of Electrical Engineering, Columbia University, New York, N. Y. 1908
MORITZ, R. E., Professor of Mathematics, University of Washington, Seattle, Wash. 1917
MORRILL, J. B., Manager, Reed Reduction Co., Palo Alto, Calif. .. 1914
MORRIS, C. C., Professor of Mathematics, The Ohio State University, Columbus, O. 1915
MORRIS, C. T., Professor of Structural Engineering, The Ohio State University, Columbus, O. 1907
MORRIS, J. J., Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1912
MORRISON, I. F., Lecturer in Structural Engineering, University of Alberta, Edmonton South, Alta., Canada 1912
MORRISON, ROGER L., Professor of Highway Engineering, Texas A. & M. College, College Station, Tex. 1914

MORROW, L. W. W., Professor of Electrical Engineering, Director, School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1917

MORSE, G. H., Consulting Engineer, Mutual Electric & Machine Co., Wheeling, W. Va. 1907

MORSE, J. L., Professor of Mechanical Engineering, Colorado School of Mines, Golden, Colo. 1910

MORSS, EVERETT, 115 Commonwealth Ave., Boston, Mass. 1910

MOSELEY, A. W., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1907

MOSS, S. A., Engineer, Turbine Research Dept., General Electric Co., Lynn, Mass. 1911

MOTT, W. E., Dean, School of Applied Science, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

MOUNCE, J. L., Instructor in Wood Working, University of Pennsylvania, Philadelphia, Pa. 1912

MOYER, J. A., Director of the Dept. of University Extension, Massachusetts Board of Education, Boston Mass. 1904

MOYLE, M. W., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1915

MUHLFELD, J. E., Sherbrooke Road, Scarsdale, N. Y. 1911

MUNN, D. W., Assistant Engineer, Steel Company of Canada, Montreal, Canada 1915

MUNRO, A. R., Senior Demonstrator in Engineering, University of Queensland, Brisbane, Australia 1913

MUNRO, G. W., Assistant Professor of Mechanical Engineering, Purdue University, LaFayette, Ind. 1915

MUNRO, M. S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914

MUNROE, G. E., Construction Department, General Electric Co., Schenectady, N. Y. 1907

MUNROE, H. S., Emeritus Professor of Mining, Columbia University, Litchfield, Conn. 1893

MURDOCK, H. E., Agricultural Engineer, Head of Agricultural Engineering Department, University of Montana, Bozeman, Mont. 1910

MURPHY, R. K., % P. R. Cole, Sydney Teachers College, Sydney, Australia 1914

MURRAY, D. A., Professor of Applied Mathematics, McGill University, Montreal, Canada 1910

MURRIE, J. L., Supervisor, Cadet Engineer Corps, The New York Edison Co., New York, N. Y. .....

MYERS, CURTIS C., Professor of Industrial Engineering, University of Cincinnati, Cincinnati, O. 1914

NAGLE, J. C., Professor of Civil Engineering, Dean of Engineering and Director, Engineering Experiment Station, A. & M. College of Texas, College Station, Tex. 1897

NAIDU, A. S., Assistant Engineer, Vizianagram City, Vizagapatam District, Madras, India..... 1913

NAIDU, K. S., Manager, Samasthanam Engineer's Office, Vizianagram City, Madras, South India 1914

NASH, C. A., Instructor in Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913

NEEL, WM. T., Assistant to Supt. of Installation Dept., Philadelphia Electric Co., Philadelphia, Pa. 1914

NEFF, F. H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895

NELSON, J. H., Professor of Applied Mechanics, Worcester Polytechnic Institute, Worcester, Mass. 1910

NELSON, J. R., Assistant Professor of English in the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1914

NESBIT, A. F., Consulting Engineer; Special Lecturer in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1902

NESBITT, RUSSELL B., Instructor in Civil Engineering, Pennsylvania State College, State College, Pa. 1917

NEWCOMB, REXFORD, Assistant Professor of Architecture and Architectural Engineering, A. & M. College of Texas, College Station, Tex. 1917

NEWCOMBE, J. L., Professor of Civil Engineering, University of Virginia, University, Va. 1915

NEWELL, F. H., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1915

NEWHALL, A. B., Instructor of Applied Science, Wentworth Institute, Boston, Mass. 1912

NEWKIRK, B. L., Assistant Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1908

NEWMAN, C. M., Professor of English and Dean, Academic Dept., Virginia Polytechnic Institute, Blacksburg, Va. 1917

NEWTON, GUY D., Assistant Professor of Mechanical Drawing and Descriptive Geometry, University of Missouri, Columbia, Mo. .. 1913

NICHOLS, CHAS. S., Assistant to Dean and Director, Division of Engineering, Associate Professor of Civil Engineering, in charge of Sanitary Engineering, Iowa State College, Ames, Ia. 1915

NOBLE, H. P., Consulting and Contracting Engineer, Falls Church, Va. 1908

NOLD, H. E., Assistant Professor of Mining Engineering, The Ohio State University, Columbus, O. 1916

NORRIS, H. H., Associate Editor, *Electric Railway Journal*, 239 W. 39th St., New York, N. Y. 1900

NORMAN, CARL A., Professor of Machine Design, The Ohio State University, O. 1918

NORTHCOTT, J. A., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. 1915

NORTON, A. E., Assistant Professor of Engineering Drawing, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1910

NORTON, C. L., Massachusetts Institute of Technology, Cambridge, Mass. 1908

NOTTINGHAM, A. R., M. E. Dept., Purdue University, W. LaFayette, Ind. 1910

NUGENT, P. C., Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1914

NYSWANDER, R. E., Professor of Physics, University of Denver, Denver, Colo. 1912

OCKERBLAD, A. M., Examiner of Surveys in the U. S. Dept. of Agriculture, Forest Service, Washington, D. C. 1911

OGLESBY, E. J., Professor of Mathematics, College of William and Mary, Williamsburg, Va. 1915

OGLESBY, N. E., Instructor in Chemistry, University of Virginia, University, Va. 1915

OHLE, E. L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905

OLMSTED, CHAS. T., Instructor in Applied Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1914

OLSEN, TINIUS, President, Tinius Olsen Testing Machine Co., 500 N. 12th St., Philadelphia, Pa. 1907

OLSON, O. A., Assistant Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1915

O'NEILL, J. F., Instructor, Mechanical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. 1912

ORTH, H. D., Assistant Professor of Mechanical Drawing, University of Wisconsin, Madison, Wis. 1910

ORTON, EDWARD, JR., Research Professor of Ceramic Engineering, The Ohio State University, Columbus, O. 1900

OSBORN, G. M., Instructor in Sanitary Engineering, West Virginia University, Morgantown, W. Va. 1916

OSBORNE, L. A., Vice-President, Westinghouse Electric & Mfg. Co., 165 Broadway, New York, N. Y. 1911

O'SHAUGHNESSY, LOUIS, Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. 1912
OSSA, GASTON, Assistant in Physics, Universidad de Chile, Santiago, Chile, S. A. 1911
OSTRANDER, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass. 1894
OWENS, R. B., Secretary of The Franklin Institute, Philadelphia, Pa. 1894
OWENS, R. H., Assistant Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1917
PAINE, ELLERY B., Professor of Electrical Engineering and Acting Head of the Department, University of Illinois, Urbana, Ill. 1911
PAINE, FRANK D., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915
PARCEL, J. I., Associate Professor of Structural Engineering, University of Minnesota, Minneapolis, Minn. 1910
PARK, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Boston, Mass. 1903
PARK, C. W., Associate Professor of English, University of Cincinnati, Cincinnati, O. 1915
PARKER, J. C., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1916
PARKIN, J. H., Lecturer in Mechanical Engineering, University of Toronto, Toronto, Ontario, Canada 1915
PARKS, C. W., Civil Engineer, United States Navy, Chief of Bureau of Yards and Docks, Washington, D. C. 1911
PARMELEE, H. C., Managing Editor, *Metallurgical and Chemical Engineering*, New York, N. Y. 1916
PARR, S. W., Professor of Applied Chemistry, University of Illinois, Urbana, Ill. 1912
PASSANO, L. M., Associate Professor of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1912
PATTEN, W. E., Professor of Civil Engineering, Government Institute of Technology, Shanghai, China 1915
PATTERSON, L. L., Professor of Electrical Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1915
PATTERSON, T. S., Assistant Professor of Mechanics and Materials of Construction, The Pennsylvania State College, State College, Pa. 1914
PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907

PEARCE, C. E., Assistant Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

PEARSON, R. A., President, Iowa State College, Ames, Ia. 1914

PEGRAM, GEORGE B., Acting Dean, School of Mines, Engineering and Metallurgy, Professor of Physics, Columbia University, New York, N. Y. 1918

PEHRSON, E. W., Assistant Professor of Mathematics, University of Utah, Salt Lake City, Utah 1915

PENCE, W. D., Member, Engineering Board, Interstate Commerce Commission, Chicago, Ill. 1895

PENDER, HAROLD, Professor of Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1909

PENN, J. C., Assistant Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1915

PERRY, C. F., Supervisor of Manual and Industrial Training, Milwaukee Public Schools, Milwaukee, Wis. 1907

PERRY, F. G., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1916

PERRY, W. H., Instructor in Applied Science, Wentworth Institute, Boston, Mass. 1913

PERRY, WILLIAM S., Assistant Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1918

PERSON, F. G., Professor of Physics, Head, Dept. of Physics and Electrical Engineering, State Agricultural College, Fort Collins, Colo. 1918

PETTEE, C. H., Dean, New Hampshire College, Durham, N. H. 1898

PFEIF, G. H., Secretary, Student Committee, General Electric Co., Schenectady, N. Y. 1918

PHALEN, HAROLD R., Professor of Mathematics, Berea College, Berea, Ky. 1914

PHELON, J. O., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1902

PHELPS, HOWARD E., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914

PHILBRICK, H. S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913

PHILLIPS, H. C., General Secretary, President's Conference on Federal Valuation of Railroads, 737 Commercial Trust Bldg., Philadelphia, Pa. 1913

PHILLIPS, J. D., Assistant Dean, College of Engineering, and Professor of Drawing, University of Wisconsin, Madison, Wis. 1899

PICKELS, G. W. JR., Associate in Civil Engineering, University of Illinois, Urbana, Ill. 1910

PINTO, ANTHONY, Assistant Professor of Electrical Engineering, Cooper Union, New York, N. Y. 1913
PIPER, FRED. F., Instructor in Electrical Engineering, Mechanics Institute, Rochester, N. Y. 1915
PLAGGE, H. J., Assistant Professor of Physics, Iowa State College, Ames, Ia. 1915
PLANT, L. C., Head of the Department of Mathematics, Michigan Agricultural College, East Lansing, Mich. 1914
POND, FRANCIS J., Professor of Chemistry and Director of Chemical Laboratory, Stevens Institute of Technology, Hoboken, N. J. 1912
POND, G. G., Dean of the School of Natural Science, The Pennsylvania State College, State College, Pa. 1914
POOLE, CECIL P., Consulting Engineer, P. O. Box 774, Atlanta, Ga. 1907
POORMAN, A. P., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907
POPE, WILLARD, Vice-President and Engineer, The Canadian Bridge Co., Ltd., Walkerville, Ontario 1911
PORTER, CHAS. T., Instructor in Mechanical Engineering, Yale University, New Haven, Conn. 1912
PORTER, DWIGHT, Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1893
PORTER, F. M., Associate in Engineering Drawing, University of Illinois, Urbana, Ill... 1912
PORTER, H. E., Assistant Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915
PORTER, J. B., Professor of Mining Engineering, McGill University, Montreal, Quebec, Canada..... 1904
PORTER, J. F., President, Kansas City Light & Power Co., and Standard Electric Light Co., Kansas City, Mo. 1912
PORTER, J. MADISON, Consulting Engineer, Easton, Pa. 1893
PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908
PORTER, R. H., Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1915
POTTER, A. A., Professor of Steam and Gas Engineering and Dean of the Engineering Division, Kansas State Agricultural College, Manhattan, Kans..... 1908
POTTER, JOHN C., 257 Maple Ave., Oak Park, Ill. 1913
POUND, J. H., Instructor in Mechanical Engineering, Rice Institute, Houston, Tex. 1916
POWERS, W. P., Instructor in Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1914
PRATT, H. B., Test Engineer, Public Service Commission, Harrisburg, Pa. 1915

PRATT, J. A., Director, Williamson Free School of Mechanical Trades, Delaware Co., Pa. 1908

PRENTICE, D. B., Head of Mechanical Engineering Department, Lafayette College, Easton, Pa. 1912

PRESS, ABRAHAM, Assistant Professor of Electrical Engineering, University of Oklahoma, Norman, Okla. 1916

PRICE, CHAS. B., Instructor in Mathematics and Drawing, Boys Trade School; Assistant Supervisor of Evening Trade School, Worcester Trade School, Worcester, Mass. 1914

PRIME, A. C., Consulting Engineer, 1008 Spruce St., Philadelphia, Pa. (Life Member) 1910

PRINE, CHARLES W., Instructor in Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1918

PRITCHARD, S. R., Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1914

PROBERT, F. H., Professor of Mining, University of California, Berkeley, Calif. 1917

PRYOR, F. L., Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1908

PULLEN, M. W., Instructor in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909

PURYEAR, CHARLES, Dean and Professor of Mathematics, Texas A. and M. College, College Station, Texas 1901

PUTNAM, WM. J., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1918

RABER, B. F., Associate Professor of Mechanical Engineering, University of California, Berkeley, Cal. 1915

RADEBAUGH, GUSTAV H., Associate in Factory Management and Machine Shop Practice, Acting Director Shop Laboratories, University of Illinois, Urbana, Ill. 1914

RALSTON, J. C., Consulting Engineer, also Vice-President and Consulting Engineer, Pacific Coast Pipe Co. of Seattle, 2421 W. Mission Ave., Spokane, Wash. 1910

RANDALL, J. A., 2860 Scottwood Ave., Toledo, O. 1911

RANDALL, O. E., Professor of Applied Mathematics and Dean of the University, Brown University, Providence, R. I. 1903

RANDOLPH, L. S., Professor of Mechanical Engineering and Dean of Engineering Dept., Virginia Polytechnic Institute, Blacksburg, Va. 1894

RANDOLPH, OSCAR A., Instructor in Physics, University of Colorado, Boulder, Colo. 1917

RANKIN, F. J., Electrical Engineer, Public Utilities Commission, Capitol Bldg., Denver, Colo. 1913

RASMUSEN, J. E., Associate Professor of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1910
RAY, H. C., Professor of Ore Dressing and Associate Professor of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. 1916
RAYMOND, F. N., Associate Professor of Rhetoric, University of Kansas, Lawrence, Kans. 1910
RAYMOND, H. M., Dean, Engineering Studies, Armour Institute of Technology, Chicago, Ill. 1903
RAYMOND, W. G., Dean of the College of Applied Science and Professor of Civil Engineering, State University of Iowa, Iowa City, Ia. 1893
RAYNER, WM. H., Associate in Civil Engineering, University of Illinois, Urbana, Ill. 1913
READ, B. K., Chief Engineer, Dominion Forge & Stamping Co., Ltd., Walkerville, Ont. 1913
REBER, LOUIS E., Dean, University Extension Division, University of Wisconsin, Madison, Wis. 1893
REED, K. W., Principal, Apprentice School Warner & Swasey Co., Cleveland, O. 1915
REED, PERCY L., Senior Instructor in Civil Engineering, Drexel Institute, Philadelphia, Pa. 1914
REID, CLARENCE E., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1907
REMICK, B. L., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915
REW, IRWIN, Trustee of Northwestern University, 108 LaSalle St., Chicago, Ill. 1913
RICE, H. A., Professor of Mechanics and Structural Engineering, University of Kansas, Lawrence, Kans. 1915
RICHARDS, C. RUSS, Dean, College of Engineering, Director, Engineering Experiment Station and Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. 1895
RICHARDS, CHAS. RUSSELL, Director, Cooper Union, New York, N. Y. 1904
RICHARDS, T. E., Instructor, Michigan College of Mines, Houghton, Mich. 1910
RICHARDS, WM. H., Instructor in Manual Training and Pattern Making, University of Minnesota, Minneapolis, Minn. 1910
RICHARDSON, CLIFFORD, Consulting Engineer, Room 1615 Woolworth Bldg., 233 Broadway, New York, N. Y. 1913
RICHARDSON, G. R., Instructor in Steam Engineering, Franklin Union, Boston, Mass. 1912
RICHARDSON, M. R., Durham, N. C. 1910

RICHEY, J. J., Associate Professor of Civil Engineering, Texas A. & M. College, College Station, Tex. 1910

RICHTER, A. W., Dean of the College of Engineering, University of Montana, Bozeman, Mont. 1894

RICHTMYER, F. K., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. 1910

RICKER, N. C., Emeritus Professor of Architecture, University of Illinois, Urbana, Ill. 1894

RIDDERVOLD, A. S., Assistant Professor of Civil Engineering, University of Nebraska, Lincoln, Nebr. 1912

RIDOUT, JOHN, Instructor in Mathematics, United States Naval Academy, Annapolis, Md. 1915

RIESENBERGER, ADAM, Registrar and Treasurer, Stevens Institute of Technology, Hoboken, N. J. 1908

RIGGS, H. E., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913

RIGGS, N. C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

RIGGS, W. M., President and Consulting Professor of Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1897

RISLEY, W. J., Professor of Mathematics, James Millikin University, Decatur, Ill. 1910

RITTENHOUSE, L. H., Associate Professor of Electrical Engineering, Haverford College, Haverford, Pa. 1906

ROBBINS, A. G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBBINS, F. A., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1913

ROBERT, J. H., Instructor in Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

ROBERTS, MILNOR, Dean of the College of Mines, and Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

ROBERTS, W. J., Chief Engineer, Inter-County River Improvement, 401 Court House, Tacoma, Wash. 1922

ROBERTSON, J. E., Head, Graphics Department, Colorado College, Colorado Springs, Colo. 1913

ROBERTSON, JOHN E., County Road Engineer of Shelby County, Shelbyville, Ky. 1914

ROBINSON, EDW., Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1899

ROBINSON, M. B., Professor of Mechanical Engineering University of Akron, Akron, O. 1915

Rockwell, E. H., Professor of Structural Engineering, Tufts College, Tufts College, Mass. 1907

Rockwell, Robert L., Consulting Electrical Engineer, Stevens & Rockwell, Empire Bldg., Seattle, Wash. 1915

Rodgers, L. J., Head of Dept. of Machine Work, Wentworth Institute, Boston, Mass. 1912

Rodhouse, T. J., Associate Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

Rodman, W. S., Professor of Electrical Engineering, University of Virginia, University, Va. 1915

Roe, J. W., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908

Rogers, C. E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917

Rogers, H. S., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1917

Rogers, Ralph, Bay City, Mich. 1908

Rohrer, A. L., Electrical Superintendent, Schenectady Works, General Electric Co., Schenectady, N. Y. 1911

Rollins, E. B., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912

Rollins, Jas. W., President, Holbrook, Cabot & Rollins Corp., Contractors, Boston, Mass. 1913

Rondinella, L. F., Head of Department of Drawing and Design, West Philadelphia High School for Boys, Philadelphia, Pa. .. 1903

Rood, Jas. T., Professor (in charge) of Department of Electrical Engineering, Lafayette College, Easton, Pa. 1914

Root, J. E., Assistant Engineer, Division of Sewerage, Dept. of Public Service, Cincinnati, O. 1910

Root, R. E., Professor of Mathematics and Mechanics, Post-Graduate Dept., U. S. Naval Academy, Annapolis, Md. 1914

Rorty, M. C., Special Agent, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y. 1912

Rosebrugh, T. R., Professor of Electrical Engineering, University of Toronto, Toronto, Ontario, Canada..... 1896

Rosing, Anton S., Civil Engineer, 7229 North Robey St., Chicago, Ill. 1911

Rowell, L. D., Associate Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910

Rowland, Arthur J., Dean and Professor of Electrical Engineering, Drexel Institute, Philadelphia, Pa. 1903

Rowley, F. B., Assistant Professor of Experimental Engineering, University of Minnesota, Minneapolis, Minn. 1910

ROYS, F. W., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1914

RUBEY, H. K., Assistant Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1917

RUGG, H. O., Instructor in Education, School of Education, University of Chicago, Chicago, Ill. 1909

RUGGLES, S. L., Instructor in Civil Engineering, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1910

RUNNING, THEODORE R., Associate Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1918

RUSK, W. W., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1917

RUSSELL, L. K., Professor of Chemistry, Clarkson School of Technology, Potsdam, N. Y. 1910

RUSSELL, W. B., Director, Franklin Union, Boston, Mass. 1903

RYAN, H. J., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1901

RYAN, W. T., Assistant Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1911

SADLER, H. C., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1907

SALAZAR, ARTURO EDMUNDO, Professor of Applied Physics and Electrical Engineering, Universidad de Chile, Santiago de Chile, S. A. 1914

SALE, C. S., Assistant to Director, Engineering Experiment Station, and Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1916

SANBORN, F. E., Professor of Industrial Arts, Ohio State University, Columbus, O. 1899

SANDERS, W. H., Instructor in Farm Motors, Kansas State Agricultural College, Manhattan, Kans. 1915

SARASON, SAMUEL D., Assistant Professor of Civil Engineering, L. C. Smith College of Applied Science, Syracuse University, N. Y. 1918

SATTERFIELD, H. E., Professor of Mechanical Engineering, North Carolina State College, West Raleigh, N. C. 1909

SAVANT, D. P., Instructor in Electrical Engineering, University of Missouri, Columbia, Mo. 1917

SAVILLE, THORNDIKE, Assistant in Municipal Administration and Geology, Harvard University, Cambridge, Mass. 1915

SAWYER, A. R., Professor of Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. 1907

SAYRE, M. F., Instructor in Engineering, Union College, Schenectady, N. Y. 1917

SCARBOROUGH, J. B., Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md. 1915

SCHEALER, S. R., Assistant Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1911

SCHILDHAUER, EDWARD, President, The Stenotype Company, Indianapolis, Ind. 1912

SCHMIDT, E. C., Professor of Railway Engineering, University of Illinois, Urbana, Ill. 1907

SCHNEIDER, HERMAN, Professor of Civil Engineering and Dean of the College of Engineering, University of Cincinnati, Cincinnati, O. 1903

SCHUERMAN, W. H., Dean of the School of Engineering and Professor of Pure and Applied Mathematics, Vanderbilt University, Nashville, Tenn. 1895

SCHWARZE, C. T., Assistant Professor of Civil Engineering, Cooper Union, New York, N. Y. 1912

SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910

SCOATES, DANIELS, Professor of Agricultural Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1914

SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1904

SCULLEN, A. J., In charge of Dept. of Civil Engineering, Catholic University of America, Washington, D. C., ... 1916

SEARSON, J. W., Professor of English, Kansas State Agricultural College, Manhattan, Kans. 1915

SEATON, L. F., Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1914

SEATON, R. A., Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1912

SEAVER, H. L., Associate Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1908

SEELY, F. B., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913

SEERY, FRANCIS J., Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1908

SELBY, L. B., Inspector, Ohio Inspection Bureau, Akron, O. 1911

SEWARD, H. L., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1910

SEXTON, F. H., President of the Nova Scotia Technical College, and Director of Technical Education, Halifax, Nova Scotia..... 1908

SEYFERT, S. S., Associate Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1908

SHAAD, G. C., Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1907

SHANE, ADOLPH, Dean of Engineering and Professor of Electrical Engineering, Highland Park College, Des Moines, Ia. 1907

SHATTUCK, E. L., Professor of Applied Mechanics and Thermodynamics, Louisiana Industrial Institute, Ruston, La. 1914

SHATTUCK, H. B., Associate Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906

SHAW, H. B., with Henry L. Doherty & Co., in charge Doherty Training Schools, Toledo, O. 1907

SHELDON, SAMUEL, Professor of Physics and Electrical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y..... 1903

SHELDON, S. R., Dean and Professor of Electrical Engineering, Government Institute of Technology, Shanghai, China 1914

SHENEHON, FRANCIS C., Consulting Hydraulic Engineer, 628 Metropolitan Bank Bldg., Minneapolis, Minn. 1909

SHEPARDSON, G. D., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1895

SHEPARDSON, J. E., Instructor in Electrical Engineering, The Ohio State University, Columbus, O. 1917

SHEPPARD, H. S., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1914

SHERMAN, C. E., Professor of Civil Engineering, Ohio State University, Columbus, Ohio 1907

SHIPLEY, S. C., Assistant Professor of Machine Construction, and Superintendent of Shops, University of Minnesota, Minneapolis, Minn. 1908

SHOOP, C. F., Assistant Professor of Experimental Engineering, University of Minnesota, Minneapolis, Minn. 1906

SHORT, R. L., Director of High Schools, Lakewood, O. 1902

SHUSTER, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis..... 1907

SHUTT, J. C., Assistant Instructor in Steam and Gas Engineering, Kansas State Agricultural College, Manhattan, Kans. 1914

SIBLEY, F. H., Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1910

SILVEY, O. W., Professor of Physics, A. & M. College of Texas, College Station, Tex. 1917

SIMMERING, S. L., Assistant Professor of Steam and Gas Engineering, Kansas State Agricultural College, Manhattan, Kans. ... 1913

SJOGREN, OSCAR W., Assistant Professor of Agricultural Engineering, University of Nebraska, Lincoln, Nebr. 1917

SKELTON, R. H., Professor of Civil Engineering, Pei-Yang University, Tientsin, China 1914

SLAGLE, W. C. H., Assistant Professor, University of Pennsylvania, Philadelphia, Pa. 1917
SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Neb. 1910
SLEESMAN, L. C., Professor of Chemical Engineering, Ohio Northern University, Ada, O. 1917
SLICHTER, C. S., Professor of Applied Mathematics, University of Wisconsin; Consulting Engineer, Madison, Wis. 1906
SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911
SLOCUM, R. H., Professor of Civil Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1903
SLUSS, A. H., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915
SMALLWOOD, JULIAN C., Associate Professor of Mechanical Engineering, Syracuse University, Syracuse, N. Y. 1912
SMITH, ARTHUR BESSEY, Electrical Engineer, The Automatic Electric Co., Chicago, Ill. 1911
SMITH, A. L., Professor of Drawing and Machine Design, Worcester Polytechnic Institute, Worcester, Mass. 1902
SMITH, E. B., Mechanical Engineer, Bureau of Soils, Washington, D. C. 1906
SMITH, H. B., Professor of Electrical Engineering, and Director of Electrical Engineering Dept., Worcester Polytechnic Institute, Worcester, Mass. 1898
SMITH, HARRY E., Professor of Steam Engineering, and Supt. of Power Plant, Texas A. & M. College, College Station, Tex. 1895
SMITH, H. S. S., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1894
SMITH, JAMES E., Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1910
SMITH, J. E., Assistant Professor of Geology, Iowa State College, Ames, Ia. 1917
SMITH, J. HAMMOND, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1910
SMITH, L. S., Professor of Topographic and Highway Engineering, University of Wisconsin, Madison, Wis. 1903
SMITH, P. F., Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. 1908
SMITH, R. J., Instructor, Department of Engineering, Louisiana Industrial University, Ruston, La. 1917
SMITH, RICHARD R., Manager, College Department, The Macmillan Company, 66 Fifth Ave., New York, N. Y. 1914

SMITH, S. A., Instructor in Dept. of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1914

SMOLEY, C. K., Civil and Structural Engineer, International Textbook Co., Scranton, Pa. 1913

SMULL, T. J., JR., Executive Secretary of the University and Dean of the College of Engineering, Ohio Northern University, Ada, O. 1907

SMYTH, H. L., Professor of Mining and Metallurgy and Director of the Mining and Metallurgical Laboratory, Harvard University, Cambridge, Mass. 1907

SNADER, DAVID L., Professor in charge of Depts. of Engineering and Physics, Southwestern Presbyterian University, Clarkesville, Tenn. 1918

SNAVELY, T. R., Fellow of the Phelps Stokes Foundation, University of Virginia, University, Va. 1916

SNOW, CHAS. H., Dean of School of Applied Science and Professor of Civil Engineering, New York University, New York, N. Y.. 1895

SNOW, O. L., Assistant Professor of Physics, Michigan Agricultural College, East Lansing, Mich. 1911

SNOW, WALTER B., Publicity Engineer, 136 Federal St., Boston, Mass. 1899

SOLBERG, H. C., Professor of Mechanical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1894

SORENSEN, R. W., Professor of Electrical Engineering, Throop College of Technology, Pasadena, Calif. 1912

SPALDING, F. P., Professor of Civil Engineering, University of Missouri, Columbia, Mo. 1893

SPEIRS, CHAS. E., Vice-President, D. Van Nostrand Company, Publishers, 25 Park Place, New York, N. Y. 1914

SPERR, F. W., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich..... 1896

SPERRY, C. S., Assistant Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. **1914**

SPINNEY, L. B., Professor of Physics, Iowa State College, Ames, Ia. **1899**

SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1904

SPOONER, H. J., Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, Regent St., W., London, England 1912

SPRAGUE, EMBERT H., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1918

SPRAGUE, F. J., Consulting Engineer, 165 Broadway, New York, N. Y. 1911

SPRINGER, F. W., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1896
SPRINGER, G. P., Assistant Professor of Civil Engineering, Maryland State College of Agriculture, College Park, Md. 1917
ST. JOHN, E. R., Designing Engineer, American Bridge Co., Pittsburgh, Pa. 1916
STANFORD, J. V., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1907
STANLEY, W. E., Instructor in Hydraulics Laboratory, Purdue University, LaFayette, Ind. 1915
STANTON, CHAS. B., Assistant Professor of Railway Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
STAPLES, E. I., Instructor in Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1916
STARKEY, L. C., Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1914
STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912
STEINMAN, D. B., Professor in charge of Civil and Mechanical Engineering, College of the City of New York; Associate Engineer, Waddell & Son, 165 Broadway, New York, N. Y. 1910
STEINMETZ, C. P., Chief Consulting Engineer, General Electric Co.; Professor of Electrophysics, Union University, Schenectady, N. Y. 1910
STELZNER, W. B., Adjunct Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1914
STEPHENSON, S. A., JR., Assistant Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1910
STETSON, J. M., Adelbert College, Western Reserve University, Cleveland, O. 1914
STEVENS, A. C., General Electric Co., Pittsfield, N. Y. 1912
STEVENS, E. F., Librarian, Pratt Institute Free Library, and Director, School of Library Science, Brooklyn, N. Y. 1908
STEVENS, F. H., Assistant Professor Engineering Mechanics, College of Engineering, University of Michigan, Ann Arbor, Mich. 1915
STEVENS, J. FLOYD, Assistant Professor of Electrical Engineering, University of North Dakota, University, N. D. 1913
STEVENS, W. LECONTE, Professor of Physics, Washington & Lee University, Lexington, Va. 1916
STEWARD, R. K., Professor of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910
STEWART, C. E., Assistant Professor of Mechanic Arts, Franklin Union, Boston, Mass. 1908

Stewart, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia. 1910

Stewart, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada 1897

Stewart, O. M., Professor of Physics, University of Missouri, Columbia, Mo. 1909

Stillwell, L. B., Consulting Engineer, 100 Broadway, New York, N. Y. 1912

Stivers, E. R., Instructor in Civil Engineering, University of Florida, Gainesville, Fla. 1917

Stockwell, F. C., Assistant Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

Stoek, H. H., Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1907

Stone, Chas. W., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1911

Stone, E. A., Professor of General Engineering, Queen's University, Kingston, Ontario 1907

Stone, Julius F., c/o Seagrave Co., Columbus, O. 1913

Storm, E. R., Architect, 160 Fifth Ave., New York, N. Y. 1908

Stout, O. V. P., Dean of the College of Engineering and Professor of Civil Engineering, University of Nebraska, Lincoln, Neb. 1894

Straw, J. B., Assistant Professor of Electrical Engineering, Towne Scientific School, University of Pennsylvania, Philadelphia, Pa. 1915

Strong, Albert J., Instructor in Machine Design and Supt. of Shops, University of Florida, Gainesville, Fla. 1913

Streeter, R. L., Professor of Steam and Gas Engine Design, Rensselaer Polytechnic Institute, Troy, N. Y. 1913

Sturges, T. L., Jr., Professor of Electrical Engineering, Delaware College, Newark, Del. 1910

Styer, Charles A., Instructor, U. S. Naval Academy, Annapolis, Md. 1918

Sullivan, Geo. L., Professor of Mechanical Engineering, University of Santa Clara, Santa Clara, Calif. 1912

Surveyer, Arthur, Consulting Engineer; Member, Board of Directors, Ecole Polytechnique de Montreal, Montreal, P. Q., Canada 1914

Sutherland, C. H., Instructor in Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1914

Suttie, R. H., Instructor in Civil Engineering, Yale University, New Haven, Conn. 1912

SVENSEN, C. L., Assistant Professor of Engineering Drawing, The Ohio State University; Prop., Ohio Technical Drawing School, Columbus, O. 1909

SWAIN, G. F., Professor of Civil Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1893

SWAMY, B. N., Overseer, Town and Water Works, Berhamhere, Guajam, Madras, South India 1913

SWARTZEL, K. D., Professor of Mathematics, The Ohio State University, Columbus, O. 1910

SWEETSER, E. O., Assistant Professor of Civil Engineering, Washington University, St. Louis, Mo. 1910

SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910

SWETT, G. W., Assistant Professor of Machine Design, Massachusetts Institute of Technology, Boston, Mass. 1907

SWIFT, WALTER, Secretary, Department of Applied Science, University of Sheffield, Sheffield, England..... 1902

SYPHERD, W. O., Professor of English, Delaware College, Newark, Del. 1914

TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, and in charge of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1893

TALBOT, H. P., Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 1902

TALLMAN, WM. D., Professor of Mathematics, Montana State College of A. & M. Arts, Bozeman, Mont. 1914

TANZER, E. Dean, Assistant Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1915

TAYLOR, I. I., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1915

TAYLOR, KNOX, President, Taylor-Wharton Iron & Steel Co., High Bridge, N. J. 1916

TAYLOR, L. B., Torpedo Engineer, U. S. Naval Torpedo Station, Newport, R. I. 1912

TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas..... 1902

TAYLOR, W. C., Assistant Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913

TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913

TELLEEN, J. M., Assistant Professor of English, Case School of Applied Science, Cleveland, O. 1908

TEMPLE, W. E. S., Consulting Engineer, Swarthmore, Pa. 1912

TERRELL, DANIEL V., Professor of Highway Engineering, University of Kentucky, Lexington, Ky. 1917

TERRELL, R. C., Associate Professor of Highway Engineering, University of Oklahoma, Norman, Okla. 1913

TERRILL, ARTHUR C., Head, Dept. of Mining Engineering, University of Kansas, Lawrence, Kans. 1916

THACH, C. C., President, Alabama Polytechnic Institute, Auburn, Ala. 1905

THALER, J. A., Professor of Electrical Engineering, Montana State College of A. and M. Arts, Bozeman, Mont. 1901

THAYER, H. R., Assistant Professor of Structural Design, Carnegie Institute of Technology, Pittsburgh, Pa. 1911

THOMAS, C. C., Head of the Department of Mechanical Engineering, Johns Hopkins University, Baltimore, Md. 1908

THOMAS, C. F., Instructor in Mathematics, Case School of Applied Science, Cleveland, O. 1909

THOMAS, CHAS. W., Instructor in Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1912

THOMAS, EVAN, Professor of Mechanics and Mathematics, University of Vermont, Burlington, Vt. 1908

THOMAS, FRANKLIN, Professor of Civil Engineering, Throop College of Technology, Pasadena, Calif. 1914

THOMAS, GEO. B., Professor of Electrical Engineering, Colorado College, Colorado Springs, Colo. 1911

THOMAS, H. A., Associate Professor of Civil Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1913

THOMAS, R. G., Professor of Mathematics and Engineering, The Citadel, The Military College of S. C., Charleston, S. C..... 1894

THOMAS, R. P., Assistant Professor of Applied Mathematics, University of Wooster, Wooster, O. 1914

THOMPSON, FRANK F., Professor of Electrical Engineering, Rutgers College, New Brunswick, N. J. 1909

THOMPSON, G. S., Assistant Professor of Rational and Technical Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1907

THOMPSON, JAMES S., With McGraw-Hill Book Co., 239 W. 39th St., New York, N. Y. 1911

THOMSON, FRANCIS A., Dean, School of Mines, University of Idaho, Moscow, Ida. 1915

THOMSON, R. D., Efficiency Engineer, General Electric Company, West Lynn, Mass. 1912

THORKELSON, H. J., Business Manager, University of Wisconsin, Madison, Wis. 1909

THORNBURG, C. L., Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa..... 1894

THORNTON, W. M., Professor of Applied Mathematics and Dean of the Department of Engineering, University of Virginia, University, Va. 1916

THOROUGHGOOD, R. W., Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1913

THURBER, CHAS. H., Editor, Ginn & Co., 15 Ashburton Place, Boston, Mass. 1914

TIBBETTS, F. H., Civil Engineer, Alaska Commercial Bldg., San Francisco, Calif. 1908

TILDEN, C. J., Professor of Civil Engineering, The Johns Hopkins University, Baltimore, Md. 1913

TIMBIE, W. H., Head of Applied Science Dept., Wentworth Institute, Boston, Mass. 1908

TITSWORTH, A. A., Professor of Civil Engineering, Dean of Engineering, Rutgers College, New Brunswick, N. J. 1903

TIVEY, J. P., Engineer, Australian General Electric Co., Mazda House, Wentworth Ave., Sydney, Australia 1912

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TOMPKINS, V. D., Supt. of Electrical Shops, Robert College, Constantinople, Turkey 1915

TONSOR, CHARLES A., JR., Assistant Professor of English, School of Applied Science, New York University, New York, N. Y. .. 1918

TOPPING, A. N., Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910

TOUCEDA, E. A., Professor of Metallurgy, Rensselaer Polytechnic Institute, Troy, N. Y. 1907

TOWER, C. H., Engineer, The Motor Devices Co., 1033 Williamson Bldg., Cleveland, Ohio 1911

TOWLE, W. M., Professor of Industrial Engineering, Clarkson College of Technology, Potsdam, N. Y. 1895

TRACY, J. C., Professor of Civil Engineering, Yale University, New Haven, Conn. 1907

TRAILL, J. J., Lecturer on Hydraulics, University of Toronto, Toronto, Ont., Canada 1912

TRINKS, W., Professor and Head of Department of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1917

TROWBRIDGE, D. S., Assistant Professor of Civil Engineering, New York University, New York, N. Y. 1917

TRUMMELL, M. F., Waukegan, Ill. 1915

Tucker, E. N., Instructor in Mathematics, Virginia Episcopal School, Lynchburg, Va. 1915

TUCKER, J. I., Professor and Director of the School of Civil Engineering, University of Oklahoma, Norman, Okla. 1912

TURLEY, O. J., Consulting Civil and Irrigation Engineer, Sante Fe, New Mexico 1912

TURNBULL, W. D., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1917

TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. 1894

TURNER, C. A. P., Engineer, 2675 Lake of Isles Blvd., Minneapolis, Minn. 1913

TURNER, D. L., Chief Engineer, Public Service Commission for the First District, 606 W. 116th St., New York, N. Y. 1898

TURNER, W. P., Professor of Practical Mechanics, Purdue University LaFayette, Ind. 1900

TURNER, WM. S., Consulting Engineer, 1006 Spalding Bldg., Portland, Ore. 1911

TYLER, H. G., Assistant Professor of Mechanical Engineering, New York University, University Heights, New York, N. Y. 1915

TYLER, H. W., Professor of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1894

TYRRELL, H. G., Chief Engineer and Manager, Tyrrell Engineering Co., Detroit, Mich. 1912

UPSON, W. L., Associate Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

VAN BUSKIRK, H. C., Professor of Mathematics, Throop College of Technology, Pasadena, Calif. 1911

VANDERBEEK, H. A., Dean and Professor of Civil Engineering, Government Institute of Technology, Shanghai, China..... 1915

VAN HAGAN, L. F., Associate Professor of Railway Engineering, University of Wisconsin, Madison, Wis. 1912

VAN NESS, L. G., Vice-President and General Manager, Merchants' Power Co., Memphis, Tenn. 1907

VAN ORNUM, J. L., Professor of Civil Engineering, Washington University, St. Louis, Mo. 1895

VAUGHAN, L. L., Assistant Professor of Experimental Engineering, North Carolina State College of Agriculture and Engineering, West Raleigh, N. C. 1912

VEAL, C. B., Assistant Inspection Engineer, Curtis Aeroplane & Motor Corporation, Buffalo, N. Y. 1910

VEDDER, H. K., Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

VEDDER, J. N., Professor of Thermodynamics, Union College, Schenectady, N. Y. 1910

VON ENDE, C. L., Professor of Chemistry, University of Idaho, Moscow, Idaho 1911

VON RITTER, ALEX, The Commonwealth Edison Co., N. W. Power Station, Chicago, Ill. 1913

VOSE, F. H., Professor of Mechanical Engineering, in charge of the department, Case School of Applied Science, Cleveland, O. 1907

VOSKAMP, JOHN A., Instructor in Civil Engineering, New York University, University Heights, N. Y. 1918

VOTEY, J. W., Professor of Civil Engineering and Dean of the College of Engineering, University of Vermont, Burlington, Vt. 1902

WADDELL, J. A. L., Consulting Bridge Engineer, Waddell & Son, 800 Graphic Arts Bldg., Kansas City, Mo. 1893

WADSWORTH, F. L. O., Consulting and Advisory Engineer, Oliver Bldg., Pittsburgh, Pa. 1911

WADSWORTH, J. E., Division Engineer, American Bridge Co., 22 Morsemere Place, Yonkers, N. Y. 1895

WADSWORTH, M. E., Emeritus Dean and Professor of Mining Geology and Curator of the Mineralogical and Petrographical Collections, School of Mines, University of Pittsburgh, Pittsburgh, Pa. 1895

WAGNER, F. C., Professor of Mechanical and Electrical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1911

WAGNER, S. T., Chief Engineer, The Philadelphia and Reading Railway Co., Philadelphia, Pa. 1911

WAIT, J. C., Attorney and Counsellor-at-law, Engineering Jurisprudence, Woolworth Bldg., 233 Broadway, New York, N. Y. 1907

WAITE, E. B., Practicing Engineer, Millbury, Mass. 1914

WALDO, C. A., Thayer Professor of Mathematics and Applied Mechanics, Washington University, St. Louis, Mo. 1897

WALDO, W. G., Instructor in Mathematics and Applied Mechanics, Vanderbilt University, Nashville, Tenn. 1917

WALES, R. L., Professor of Mechanical Engineering and Dean of Engineering Depts., Rhode Island State College, Kingston, R. I. 1914

WALKER, AMASA, Manager of Educational Dept., Longmans, Green & Co., 449 Fourth Ave., New York, N. Y. 1914

WALKER, CHAS. L., Assistant Professor of Sanitary Engineering, College of Civil Engineering, Cornell University, Ithaca, N. Y. 1910

WALKER, E. D., Professor of Hydraulic and Sanitary Engineering, Pennsylvania State College, State College, Pa 1895

WALKER, E. S., Assistant Professor of Mechanical Engineering, University of Florida, Gainesville, Fla. 1910

WALKER, P. F., Dean of the School of Engineering, University of Kansas, Lawrence, Kans. 1907

Walker, Wm. H., Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1912

Waller, O. L., Vice-President and Professor of Mathematics and Civil Engineering, State College of Washington, Pullman, Wash. 1911

Walter, J. E., Professor of Mechanical Engineering, Highland Park College, Des Moines, Ia. 1915

Ward, Samuel, Instructor in Civil Engineering, Case School of Applied Science, Cleveland, O. 1917

Ward, Walter G., Instructor in Architecture, North Dakota Agricultural College, Agricultural College, N. D. 1918

Warner, F. M., Assistant Professor of Engineering Drawing, University of Washington, Seattle, Wash. 1917

Waterman, E. L., Associate Professor of Sanitary Engineering, Pennsylvania State College, State College, Pa. 1907

Waterman, I. F., Instructor in Civil Engineering, John B. Stetson University, De Land, Fla. 1916

Waters, E. O., Instructor in Machine Design, Sheffield Scientific School, Yale University, New Haven, Conn. 1914

Watson, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910

Watts, C. W., Professor of Mathematics, The Virginia Military Institute, Lexington, Va. 1911

Weaver, L. H. A., 129 West 83d St., New York, N. Y. 1914

Weaver, Warren, Assistant Professor of Mathematics, Throop College of Technology, Pasadena, Calif. 1918

Webb, H. E., Head of the Department of Mathematics, Central Commercial and Manual Training High School, Newark, N. J. 1912

Webber, R. I., Head of Department of Drawing and Architectural Engineering, Pennsylvania State College, State College, Pa. .. 1907

Weber, John, Associate Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

Weinbach, M. P., Assistant Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

Weiss, Camillo, Instructor in Structural Engineering, University of Illinois, Urbana, Ill. 1917

Wendell, G. V., Professor of Physics, Columbia University, New York, N. Y. 1900

Wendt, W. B., Assistant Professor of Applied Mechanics, Kansas State Agricultural College, Manhattan, Kans. 1908

Wenrich, C. N., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1914

Wernecke, Chauncy, Instructor in Mechanics and Reinforced Concrete Construction, University of Washington, Seattle, Wash. 1912

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

WHARTON, J. NORMAN, Assistant Professor of English, College of Applied Science, Syracuse University, Syracuse, N. Y. 1918

WHEATLEY, G. S., Assistant Steam Engineer, Cambria Steel Co., Johnstown, Pa. 1914

WHEELER, L. P., Assistant Professor of Physics, Yale University, New Haven, Conn. 1908

WHIPPLE, G. C., Professor of Sanitary Engineering, Harvard University, 6 Berkeley Place, Cambridge, Mass. 1896

WHITE, A. E., Associate Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1910

WHITE, E. C., Professor of Civil Engineering, New Mexico School of Mines, Socorro, N. Mex. 1913

WHITE, J. M., Professor of Architectural Engineering and Supervising Architect, University of Illinois, Urbana, Ill. 1900

WHITEHEAD, J. B., Professor of Electrical Engineering, The Johns Hopkins University, Baltimore, Md. 1913

WHITEHEAD, L. W., Instructor in Civil Engineering, The Pennsylvania State College, State College, Pa. 1918

WHITMORE, R. D., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1917

WICKENDEN, WM. E., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. ... 1912

WIGLEY, W. R., Assistant Engineer, Aetna Explosives Co., 120 Broadway, New York, N. Y. 1915

WILEY, W. O., Publisher of Scientific Books, Treasurer, John Wiley & Sons, Inc., New York, N. Y. 1904

WILLIAMS, C. C., Professor of Railway Engineering, University of Kansas, Lawrence, Kans. 1909

WILLIAMS, F. B., Professor of Mathematics, Clark College, Worcester, Mass. 1901

WILLIAMS, O. E., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910

WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 734 N. Fairoaks Ave., Oak Park, Ill. 1893

WILLIAMS, W. S., Associate Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913

WILLIS, A. J., Professor of Civil Engineering, South Dakota State College, Brookings, S. D. 1912

WILLISTON, ARTHUR L., Principal, Wentworth Institute, Boston, Mass. 1897

WILLS, C. F., Director, Arizona State Bureau of Mines, Tucson, Ariz. 1917

1911 WILLSON, F. G., Head of Dept. of Applied Electricity, Wentworth Institute, Boston, Mass. 1912

1918 WILLSON, F. N., Professor of Graphics, Princeton University, Princeton, N. J. 1913

1914 WILMORE, J. J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1894

1908 WILSON, A. M., Professor of Electrical Engineering, University of Cincinnati, Cincinnati, O. 1907

1896 WILSON, GEO. S., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912

1910 WILSON, JOHN F., Associate Professor of Electrical Engineering, University of Southern California, Los Angeles, Calif. 1913

1913 WILSON, W. L., Professor of Railroad Engineering, Lehigh University, South Bethlehem, Pa. 1909

1900 WILSON, WILBUR M., Assistant Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914

1913 WING, S. R., Professor of Mechanical and Electrical Engineering, Pennsylvania College, Gettysburg, Pa. 1914

1918 WINSLOW, A. E., Professor of Civil Engineering, Norwich University, Northfield, Vt. 1914

1917 WINTER, J. W., Instructor in Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1914

1912 WIRT, F. A., Manager, Publicity Dept., John Deere Plow Co., Kansas City, Mo. 1914

1915 WITHAM, R. L., Electrical Engineer, Industrial Division, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1914

1904 WITHEY, M. O., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910

1909 WITHROW, JAMES R., Professor of Chemistry, Ohio State University, Columbus, O. 1907

1901 WITTIG, GUSTAV, Assistant Professor of Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1910

1910 WOHLENBERG, W. J., Assistant Professor of Mechanical Engineering, University of Montana, Bozeman, Mont. 1917

1893 WOLF, HARRY J., Professor of Mining, Colorado School of Mines, Golden, Col. 1914

1913 WOLFE, W. S., Instructor in Architectural Engineering, University of Illinois, Urbana, Ill. 1916

1912 WOLFEL, PAUL L., Chief Engineer, McClintic-Marshall Co., Pittsburgh, Pa. 1910

1897 WOOD, A. J., Associate Professor of Railway Mechanical Engineering, Pennsylvania State College, State College, Pa. 1898

1917

WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910
WOODMAN, J. E., Professor of Geology and Director of Geological Museum, New York University, New York, N. Y. 1912
WOODROW, JAY W., Assistant Professor of Physics, University of Colorado, Boulder, Colo. 1918
WOODS, H. C., Assistant Engineer, U. P. R. R., c/o U. P. Water Cos., Rock Springs, Wyo. 1910
WOODWARD, R. S., President, Carnegie Institution of Washington, Washington, D. C. 1893
WOODWARD, S. M., Hydraulic Engineer, c/o Miami Conservancy District, Dayton, O. 1910
WOOSTER, L. F., Assistant Professor of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1912
WRIGHT, A. S., Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1907
WRIGHT, C. A., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1916
WRIGHT, D. M., Sec'y and Treasurer, The Henry & Wright Mfg. Co., 52 Irving St., Hartford, Conn. 1914
WURTS, A. J., Professor and Head of Department Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
WYMAN, F. T., Chief Engineer, Packard Electric Co., St. Catherines, Ont. 1912
YEERZLEY, W. A., Secretary and Engineer, Nagle Re-Blade Knife Co., Newark, N. J. 1907
YOUNG, C. M., Professor of Mining Research, University of Illinois, Urbana, Ill. 1907
YOUNG, C. R., Assistant Professor of Structural Engineering, University of Toronto, Toronto, Ont. 1914
YOUNG, G. A., Professor and Head of the Department of Mechanical Engineering, Purdue University, LaFayette, Ind. 1907
ZELLER, J. W., Duval High School, Jacksonville, Fla. 1912
ZELNER, O. S., Assistant Professor of Surveying, University of Minnesota, Minneapolis, Minn. 1910
ZIMMERMAN, O. B., Advisory Engineer to Sales and Manufacturing in Europe, 11–13 Rue d'Arenberg, Brussels, Belgium 1902
ZIWET, ALEXANDER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1897
ZOWSKI-ZWIERZCHOWSKI, S. J., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1910

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Colorado	45	Nebraska	12	Wisconsin	32
Connecticut	25	Nevada	4	Wyoming	7
Cuba	1	New Hampshire	8	Australia	7
Delaware	6	New Jersey	44	Belgium	1
Dist. of Columbia	25	New Mexico	8	Brazil	2
Florida	7	New York	168	Canada	32
Georgia	8	North Carolina	13	Chile	4
Idaho	6	North Dakota	7	China	6
Illinois	37	Ohio	87	England	2
Indiana	27	Oklahoma	14	Greece	1
Iowa	36	Oregon	8	Hawaii Territory	1
Kansas	46	Pennsylvania	169	Hungary	1
Kentucky	6	Rhode Island	13	India	4
Louisiana	10	South Carolina	6	Japan	3
Maine	10	South Dakota	8	Mexico	1
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Dukes, R. G.
Emory, F. L.
Enger, M. L.
Ensign, N. E.
Fleming, V. R.
Fuller, C. E.
George, S. G.
Hayward, H. W.
Herschel, W. H.
Holman, W. F.
Hotchkiss, H. J.
Houghton, C. E.
Hutchins, R. E.
Johnston, W. A.
King, Carl.
Lawrance, C. H.
McAllister, E. H.
McGowan, John.
Mathewson, J. S.
Maurer, E. R.
Moore, H. F.
Nelson, J. H.
Newkirk, B. L.
Olmsted, Chas. T.
Patterson, T. S.
Paul, C. E.
Poorman, A. P.
Porter, Chas. T.
Putnam, Wm. J.
Riggs, N. C.
Robert, J. H.
Roys, F. W.
Seaton, R. A.
Seely, F. B.
Stevens, F. H.
Talbot, Arthur N.
Taylor, I. I.
Thompson, G. S.
Thornton, W. M.
Wendt, W. B.
Withey, M. O.
Wood, E. H.
Woodward, S. M.

MINING ENGINEERING

Black, R. M.
Boyle, A. C., Jr.
Chedsey, W. R.
Cobb, Collier.
Comstock, E. H.
Daniels, Jos.
Denton, F. W.
Dyer, F. C.
Hodson, L. C.
Holbrook, E. A.
Kidd, J. W.
McClelland, J. F.
Munroe, H. S.
Nold, H. E.
Porter, J. B.
Probert, F. H.
Roberts, Milnor.
Smyth, H. L.
Sperr, F. W.
Stoek, H. H.
Terrill, A. C.
Thomson, Francis A.
Wolf, Harry J.
Young, C. M.

PHYSICS

Allee, W. G.
Angel, Wm. P.
Ball, Albert.
Bellis, A. E.
Bevan, W. A.
Blake, Fred C.
Brown, S. L.
Charles, R. L.
Cole, Alfred D.
Cooper, F. L.
Dadourian, H. M.
Douglas, J. F. H.
Duffy, C. F.
Dysart, P. M.
Fisher, James.
Franklin, W. S.
Gilmore, L. H.
Graham, P. H.
Grondahl, L. O.
Ham, Wm. R.
Hamilton, J. O.
Hedrick, Wm. A.
Hitchcock, Geo. G.
Hower, H. S.
Hoxton, L. G.
Kinsley, Carl.
LePage, Clifford B.
Lester, O. C.
Lodge, W. L.
MacNutt, Barry.
Mallory, Francis.
Mann, C. R.
Marvin, H. H.
Mathews, H. B.
Miller, Dayton C.
Molby, F. A.
Norton, C. L.
Nyswander, R. E.
Ossa, Gaston.
Perry, Wm. S.
Person, Fred G.
Plagge, H. J.
Prine, C. W.
Porter, R. A.
Randolph, Oscar A.
Richtmyer, F. K.
Silvey, O. W.
Snader, David L.
Snow, O. L.
Spinney, L. B.
Stevens, W. LeConte.
Stewart, G. W.
Stewart, O. M.
Wendell, G. V.
Wenrich, C. N.
Wheeler, L. P.
Woodrow, Jay W.

SANITARY ENGINEERING

Case, George W.
Dix, L. E.
Dunlap, J. H.
Eno, F. H.
Hawley, J. B.
Hering, Rudolph.

Hoad, W. C.
Jones, G. R.
Knowles, Morris.
Long, J. J.
Lund, Jacob.
Mackenzie, C. J.
Mead, D. W.
Naidu, K. S.
Nichols, Chas. S.
Osborn, G. M.
Rogers, C. E.
Root, J. E.
Saville, Thorndike.
Walker, Chas. L.
Walker, E. D.
Waterman, E. L.
Whipple, G. C.

SHOP AND MECHANIC ARTS

Acker, M. W.
Applin, Samuel.
Benedict, B. W.
Bloemker, Chas. W.
Davis, E. S.
Eaton, J. S.
Ellis, Frederick.
Goddard, A. L.
Hall, P. R.
Hayes, Thornton.
Hendry, W. S.
Herget, A. M.
Holmes, Paul E.
Johnson, E. A.
Jones, F. E.
Kane, S. M.
Kinsey, A. S.
Knight, W. A.
Krewson, R. H.
Lynch, D. E.
Morris, J. J.
Mounce, J. L.
Newhall, A. B.
Noble, H. P.
Perry, C. F.
Richards, Wm. H.
Rodgers, L. J.
Sanborn, F. E.
Smith, R. J.
Steele, J. N.
Stewart, C.E.
Turner, W. P.

MISCELLANEOUS

Arnett, L. D.
Avram, W. H.
Coster, E. L.
Creighton, E. E. F.
Domonoske, A. B.
Duff, C. M.
Fetter, Frank A.
Hallsted, J. C.
Hastings, H. B.
Read, B. K.
Richards, T. E.
Selby, L. B.
Snavely, T. R.
Tower, C. H.
Turner, C. A. P.

SUMMARY BY OCCUPATIONS.

Administration Officers:	*A*—College and University	145
	B—Industrial	90
Architecture		14
Agricultural Engineering		10
Chemistry		23
Civil Engineering		318
Electrical Engineering		230
Geology and Metallurgy		13
Industrial Engineering		4
Language		16
Machine Design and Drawing		67
Mathematics		86
Mechanical Engineering		215
Mechanics and Materials		59
Mining Engineering		24
Physics		57
Sanitary Engineering		23
Shop and Mechanic Arts		32
Miscellaneous		15
		1441

INSTITUTIONS REPRESENTED.

	1916	1917	1918
Agnes Scott College, Decatur, Ill.	0	1	1
Akron, Municipal University of, Akron, O.	3	2	3
Alabama Polytechnic Institute, Auburn, Ala.	9	9	6
Alabama, University of, University, Ala.	4	4	2
Alberta, University of, Edmonton South, Alta, Canada	2	2	2
Alexander Hamilton Institute, New York, N. Y.	1	1	1
Arizona, University of, Tucson, Ariz.	4	4	3
Arkansas, University of, Fayetteville, Ark.	5	5	6
Armour Institute of Technology, Chicago, Ill.	7	7	7
Berea College, Berea, Ky.	1	1	1
Boston Industrial School for Boys, Boston, Mass.	2	1	1
Bradley Polytechnic Institute, Peoria, Ill.	2	1	1
Brooklyn Manual Training H. S., Brooklyn, N. Y.	1	1	1
Brooklyn Polytechnic Institute, Brooklyn, N. Y.	9	10	9
Brown University, Providence, R. I.	8	6	7
Bucknell University, Lewisburg, Pa.	2	2	2
California, University of, Berkeley, Cal.	7	9	9
Carnegie Institution, Washington, D. C.	1	1	1
Carnegie Institute of Technology, Pittsburgh, Pa.	14	15	15
Case School of Applied Science, Cleveland, O.	21	21	18
Casino Technical Night School, East Pittsburgh, Pa.	1	1	1
Catholic University of America, Washington, D. C.	0	1	1
Central Commercial and M. T. H. S., Newark, N. J.	1	1	1
Central High School, Washington, D. C.	0	1	1
Central Continuation School	1	1	1
Chestnut Hill Academy, Chestnut Hill, Pa.	1	1	1
Chicago, University of, Chicago, Ill.	2	2	3
Chicago Central Station Institute, Chicago, Ill.	1	1	1
Cincinnati, University of, Cincinnati, O.	11	9	8
Citadel, The, Charleston, S. C.	2	2	2
Clark College, Worcester, Mass.	1	1	1
Clarkson College of Technology, Potsdam, N. Y.	4	3	3
Clemson A. & M. College, Clemson College, S. C.	5	5	4
Cleveland Technical H. S., Cleveland, O.	3	3	3
College of the City of N. Y., New York, N. Y.	1	1	1
Colorado College, Colorado Springs, Colo.	2	2	3
Colorado School of Mines, Golden, Colo.	3	4	3
Colorado State Agri. College, Fort Collins, Colo.	5	5	7
Colorado, University of, Boulder, Colo.	25	24	28

INSTITUTIONS REPRESENTED.

College of the City of New York, New York, N. Y.	1	1	1
College of the Pacific, San Jose, Calif.	0	1	1
Columbia University, New York, N. Y.	16	11	9
Cooper Union, New York, N. Y.	6	6	6
Cornell College, Mt. Vernon, Ia.	1	1	1
Cornell University, Ithaca, N. Y.	26	24	19
Dartmouth College, Hanover, N. H.	5	4	4
David Rankin, Jr. Sch., St. Louis, Mo.	2	1	1
Delaware College, Newark, Del.	5	5	5
Denver, University of, Denver, Colo.	1	1	1
Dickinson H. S., Jersey City, N. J.	3	2	1
Dorchester H. S., Dorchester Center, Mass.	1	1	1
Drexel Institute, Philadelphia, Pa.	11	11	11
Duval High School, Jacksonville, Fla.	1	1	1
Ecole Polytechnique de Montreal, Montreal, Canada	0	0	1
Escola de Engenharia, Porto Alegre, Brazil	1	1	1
Florida, University of, Gainesville, Fla.	5	5	5
Franklin Institute, Philadelphia, Pa.	1	1	1
Franklin Union, Boston, Mass.	4	4	4
George Washington University, Washington, D. C.	3	3	4
Georgia School of Technology, Atlanta, Ga.	2	3	6
Girard College, Philadelphia, Pa.	1	1	1
Government Institute of Technology, Shanghai, China	3	3	3
Harvard University, Cambridge, Mass.	17	15	7
Haverford College, Haverford, Pa.	1	1	1
Hebrew Technical Institute, New York, N. Y.	1	1	1
High Schools, Lakewood, O.	0	0	1
Highland Park College, Des Moines, Ia.	3	3	2
Idaho, University of, Moscow, Ida.	4	3	6
Illinois, University of, Urbana, Ill.	47	46	45
Indiana University, Bloomington, Ind.	2	2	2
Instituto Technico Professional, Porto Alegre, Brazil	2	1	1
International Correspondence Schools, Scranton, Pa.	3	2	2
Iowa State College, Ames, Ia.	29	28	29
Iowa, State University of, Iowa City, Ia.	7	7	7
James Millikin University, Decatur, Ill.	1	1	1
Johns Hopkins University, The, Baltimore, Md.	5	6	6
John B. Stetson University, De Land, Fla.	1	1	1
Kansas City M. T. H. S., Kansas City, Mo.	1	1	1
Kansas City Polytechnic Inst., Kansas City, Mo.	1	1	1
Kansas State Agri. College, Manhattan, Kans.	32	30	32
Kansas, University of, Lawrence, Kans.	16	18	17
Kentucky, State University of, Lexington, Ky.	3	3	4
Lafayette College, Easton, Pa.	5	5	4

Lehigh University, Bethlehem, Pa.	14	13	13
Leland Stanford Jr. Univ., Stanford Univ., Calif.	4	5	4
Lewis Institute, Chicago, Ill.	3	3	3
Louisiana Industrial Institute, Ruston, La.	3	2	4
Louisiana State University, Baton Rouge, La.	3	3	3
McGill University, Montreal, Canada	5	5	5
McKinley High School, St. Louis, Mo.	1	1	1
Maine, University of, Orono, Me.	8	9	8
Manitoba, University of, Winnipeg, Man.	3	3	2
Marquette University, Milwaukee, Wis.	1	1	2
Maryland State College of Agri., College Park, Md.	0	1	1
Massachusetts Agri. College, Amherst, Mass.	1	1	1
Massachusetts Inst. of Tech., Cambridge, Mass.	33	40	40
Mechanics Institute, Rochester, N. Y.	3	3	2
Miami University, Oxford, O.	1	1	1
Michigan Agri. College, East Lansing, Mich.	10	9	7
Michigan College of Mines, Houghton, Mich.	10	9	9
Michigan, University of, Ann Arbor, Mich.	28	25	24
Milwaukee Public Schools, Milwaukee, Wis.	0	1	1
Milwaukee, School of Engineering of, Milwaukee, Wis.	0	1	1
Minnesota, University of, Minneapolis, Minn.	28	27	24
Mississippi, A. & M. College, Agricultural College, Miss.	8	7	4
Mississippi, University of, University, Miss.	2	3	4
Missouri School of Mines, Rolla, Mo.	4	5	5
Missouri, University of, Columbia, Mo.	15	15	13
Montana Agri. College, Bozeman, Mont.	5	4	6
Nebraska, University of, Lincoln, Nebr.	14	14	13
Nevada, University of, Reno, Nev.	3	3	3
New Hampshire College, Durham, N. H.	4	4	4
New Mexico Coll. of A. & M. Arts, State College, N. M.	3	4	4
New Mexico School of Mines, Socorro, N. Mex.	0	1	1
New York Military College, Cornwall-on-Hudson, N. Y.	1	1	1
New York University, New York, N. Y.	8	9	12
North Carolina State College of A. & E., West Raleigh, N. C.	5	5	6
North Carolina, University of, Chapel Hill, N. C.	8	6	6
North Dakota Agri. College, Agricultural College, N. D.	2	1	1
North Dakota, University of, University, N. D.	5	5	5
Northeastern College, Boston, Mass.	0	0	1
Northwestern University, Evanston, Ill.	8	6	8
Notre Dame, University of, Notre Dame, Ind.	1	1	
Norwegian Technical University, Trondhjem, Norway	1	1	1
Norwich University, Northfield, Vt.	1	1	3
Nova Scotia Technical College, Halifax, N. S.	2	2	2

Ohio Northern University, Ada, O.	2	2	3
Ohio State University, Columbus, O.	26	30	32
Oklahoma A. & M. College, Stillwater, Okla.	5	5	4
Oklahoma, University of, Norman, Okla.	4	5	8
Oregon Agri. College, Corvallis, Ore.	4	5	5
Oregon, University of, Eugene, Ore.	2	1	1
Oshkosh Normal School, Oshkosh, Wis.	1	1	1
Pasadena High School, Pasadena, Calif.	1	1	1
Pei-Yang University, Tientsin, China	0	0	1
Pennsylvania College, Gettysburg, Pa.	2	2	2
Pennsylvania Military College, Chester, Pa.	2	2	1
Pennsylvania State College, State College, Pa.	21	23	20
Pennsylvania, University of, Philadelphia, Pa.	28	24	23
Pittsburgh, University of, Pittsburgh, Pa.	23	24	22
Polytechnic School of Engineering, Regents' St., London	1	1	1
Pomona College, Claremont, Calif.	1	1	1
Portland High School, Portland, Me.	0	0	1
Porto Rico, University of, Rio Piedras, P. R.	0	1	1
Pratt Institute, Brooklyn, N. Y.	5	6	5
Princeton University, Princeton, N. J.	7	7	7
Purdue University, LaFayette, Ind.	22	22	21
Queen's University, Kingston, Can.	1	1	1
Queensland, University of, Brisbane, Australia	2	2	2
Reed College, Portland, Ore.	2	1	1
Rensselaer Polytechnic Institute, Troy, N. Y.	5	6	8
Rhode Island State College, Kingston, R. I.	2	2	2
Rice Institute, Houston, Tex.	1	3	3
Riverside Jr. College, Riverside, Calif.	0	0	1
Robert College, Constantinople, Turkey	3	3	2
Rose Polytechnic Institute, Terre Haute, Ind.	4	3	4
Rutgers College, New Brunswick, N. J.	6	7	7
Santa Clara, University of, Santa Clara, Calif.	1	1	1
Saskatchewan, University of, Saskatoon, Canada	1	1	1
Schenley High School, Pittsburgh, Pa.	0	1	1
Sheffield, University of, Sheffield, England	1	1	1
Southern California University, Los Angeles, Calif.	2	2	2
South Dakota State College, Brookings, S. D.	5	5	5
South Dakota, University of, Vermilion, S. D.	3	3	3
Southwestern Presbyterian University, Clarkesville, Tenn.	0	0	1
St. Johns University, Shanghai, China	1	1	1
St. Mary College, Dayton, O.	0	1	1
Stevens Institute of Technology, Hoboken, N. J.	15	15	15
Swarthmore College, Swarthmore, Pa.	2	2	1
Sydney, University of, Sydney, Australia	1	1	1

Syracuse University, Syracuse, N. Y.	9	9	11
Technical High School, Edmonton, Alberta, Canada	1	1	1
Tennessee, University of, Knoxville, Tenn.	4	5	4
Texas A. & M. College, College Station, Tex.	12	12	15
Texas, University of, Austin, Tex.	5	5	5
Texas State School of Mines and Metallurgy, Fort Bliss, Tex.	1	1	1
Throop College of Technology, Pasadena, Calif.	8	8	8
Tokyo Imperial University, Tokyo, Japan	1	1	1
Toledo University, Toledo, O.	1	2	2
Toronto, University of, Toronto, Canada	13	11	9
Trinity College, Hartford, Conn.	1	1	2
Tufts College, Tufts College, Mass.	13	14	11
Tulane University, New Orleans, La.	4	4	4
Union University, Schenectady, N. Y.	9	9	9
United States Naval Academy, Annapolis, Md.	2	2	3
Universidad de Chile, Santiago, Chile	3	3	3
Utah, University of, Salt Lake City, Utah	4	5	4
Valparaiso University, Valparaiso, Ind.	2	2	1
Vanderbilt University, Nashville, Tenn.	1	1	2
Vermont, University of, Burlington, Vt.	8	8	8
Villanova College, Villanova, Pa.	0	1	1
Virginia Episcopal School, Lynchburg, Va.	0	1	1
Virginia Military Institute, Lexington, Va.	2	2	2
Virginia Polytechnic Institute, Blacksburg, Va.	3	4	5
Virginia, University of, University, Va.	15	12	11
Washington & Lee University, Lexington, Va.	1	2	2
Washington State College, Pullman, Wash.	2	3	2
Washington University, St. Louis, Mo.	6	7	6
Washington, University of, Seattle, Wash.	13	11	14
Wentworth Institute, Boston, Mass.	12	13	13
West Philadelphia H. S. for Boys, Philadelphia, Pa.	1	1	1
Western Reserve Univ., Adelbert College, Cleveland, O.	1	1	1
West Virginia University, Morgantown, W. Va.	8	8	9
Whitman College, Walla Walla, Wash.	2	2	2
William and Mary College, Wiliamsburg, Va.	0	1	1
William Hood Dunwoody Inst., Minneapolis, Minn.	0	0	1
Williamson Free School, Williamson School, Pa.	2	2	2
Wisconsin, University of, Madison, Wis.	27	24	23
Wooster, University of, Wooster, O.	1	1	1
Worcester Polytechnic Institute, Worcester, Mass.	16	14	15
Worcester Trade School, Worcester, Mass.	2	1	1
Wyoming, University of, Laramie, Wyo.	4	5	5
Yale University, New Haven, Conn.	22	21	20

GENERAL SUMMARY OF MEMBERSHIP.

MARCH 15, 1918.

Institutions Represented.	
Colleges and Universities Teaching Engineering.	
Domestic	159
Foreign	22
Manual, High, Correspondence and Trade Schools	32
Total Institutions	213
Institutional Members	66
Members	1440
Total Members	1506

GROWTH OF MEMBERSHIP.*

Aug.	20, 1894	156	
Sept.	2, 1895	184	
Aug.	20, 1896	200	(about)
Aug.	16, 1897	203	
Aug.	18, 1898	226	
Aug.	17, 1899	238	
July	2, 1900	249	
June	29, 1901	261	
June	27, 1902	253	
July	1, 1903	271	
Sept.	1, 1904	325	
June	28, 1905	379	
July	2, 1906	400	
July	1, 1907	415	
June	27, 1908	675	
June	24, 1909	759	
June,	23, 1910	848	
June	27, 1911	1,071	
June	1912	1,102	
June,	1913	1,158	
March,	1914	1,291	Institutional members.....48
July	1, 1915	1,403	Institutional members.....49
March,	1916	1,447	Institutional members.....57
March,	1917	1,447	Institutional members.....58
March,	1918	1,440	Institutional members.....66

* These figures are taken from the reports of the Secretary, presented at the annual meetings, except the figures for 1914 which were taken from the corresponding year book.

CONSTITUTION

OF THE

Society for the Promotion of Engineering Education

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1. NAME—This organization shall be called the SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

2. MEMBERS—Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering and scientific subjects.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, together with engineering practitioners and other persons interested in engineering education.

Honorary Members of the Society shall be such persons as may be recommended by unanimous vote of the Council after a letter ballot. In taking this ballot, the Secretary is directed to close the polls one month after the names of the candidates are sent out. Councilors not heard from will be counted in favor of the candidate. Honorary Members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

Any individual member not in arrears for dues may become a Life Member by paying Fifty Dollars into the treasury of the Society at one time.

The name of each candidate for individual membership shall be proposed in writing to the Council by two members by whom he is personally known. In the case of a candidate for Institutional membership the name shall be proposed by any member familiar with the work of the institution on receipt of an application signed by a responsible officer thereof. Such name, if approved by the Council, shall be voted on by the Society at the annual meeting, a vote of three-fourths of those present being required to elect; or, during the period between annual meetings, an affirmative letter ballot of three-fourths of those members of the Council whose vote reaches the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections shall be credited to the previous annual meeting and dues shall date from that time, except that elections to membership occurring after

February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

3. Officers—There shall be a President, two Vice-Presidents, a Secretary and a Treasurer, each to hold office for one year, or until their successors have been elected and have qualified. The Officers shall be elected by ballot of the Society at the annual meeting.

4. Council—The Council of the Society shall consist of twenty-one elective members, one-third of whom shall retire annually. The Officers and the Past Presidents of the Society shall be members of the Council ex-officio.

Any member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from any one college.

Members of the Council shall be elected by ballot by the Society at its annual meeting.

The Council shall constitute a general executive body of the Society, pass on proposals for membership, elect candidates ad interim, attend to all business of the Society, receive and report on propositions for amendments to the constitution, and shall have power to fill temporary vacancies in the offices.

The President of the Society shall be Chairman of the Council, and the Secretary of the Society shall be Secretary of the Council and shall keep the minutes of its meetings and an accurate record of all its actions.

When votes taken by letter ballot of the Council shall be required, all votes which reach the Secretary within one month from the time of sending out the ballots shall be counted, but votes reaching the Secretary later than the time here specified shall not be counted.

5. Nominating Committee—The Nominating Committee shall consist of the Past Presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five.

6. Fees and Dues—The admission fee for an individual, active member, which shall also include the first year's dues, shall be Four Dollars ($4.00), and the annual dues, which shall include the subscription price of the Bulletin, provided for in Art. 8, shall be Four Dollars ($4.00), payable at the time of the annual meeting.

The admission fee for institutional members, which shall also include the first year's dues, shall be Ten Dollars ($10.00), and the annual dues, which shall include the subscription price of three copies of the Bulletin, and of the Proceedings, provided for in Art. 8, shall be Ten Dollars ($10.00), payable at the time of the annual meeting.

The fiscal year shall end with the close (or adjournment) of the annual

meeting. Those in arrears more than one year shall not be entitled to vote, nor to receive copies of the PROCEEDINGS, and such members shall be notified thereof by the Secretary one month previous to the annual meeting. Any member who has been in arrears more than two years and duly notified by the Secretary, shall be dropped from the roll, until such arrearages are paid.

7. MEETINGS—There shall be an annual meeting at such time and place as the Society at the preceding annual meeting, or the Council may determine.

8. PUBLICATIONS—The publications of the Society shall include an annual volume of PROCEEDINGS, to be published and distributed to the membership as soon as possible after the annual meeting; and a monthly BULLETIN, to be published from September to June, inclusive.

9. AMENDMENTS—This Constitution may be amended by a two-thirds vote of those present at any regular meeting of the Society provided the amendment shall have been approved by the Council by letter ballot by a two-thirds vote of the members voting.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The Officers of the Society shall constitute a Committee to arrange for the annual meeting and to prepare a program for the same.

Second. The President, the Secretary and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to Committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. Reading of papers shall be limited to fifteen minutes each or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Fifth. The time occupied by each person in the discussion of any paper shall not exceed five minutes.

Sixth. The President, the Secretary and the retiring Secretary shall constitute a Publication Committee, of which the Secretary shall be Chairman, to edit and have charge of the publication of the monthly BULLETIN and the PROCEEDINGS of the Society, except the volume of Proceedings of the last convention, which shall be edited by the retiring

Secretary. If at any time there be no retiring Secretary the retiring President shall be a member of this Committee.

Seventh. The Officers, members of the Council and members of the local Convention Committee shall constitute a Committee on Sociability to introduce members and guests to each other at the annual meetings and in general to promote a spirit of good fellowship.

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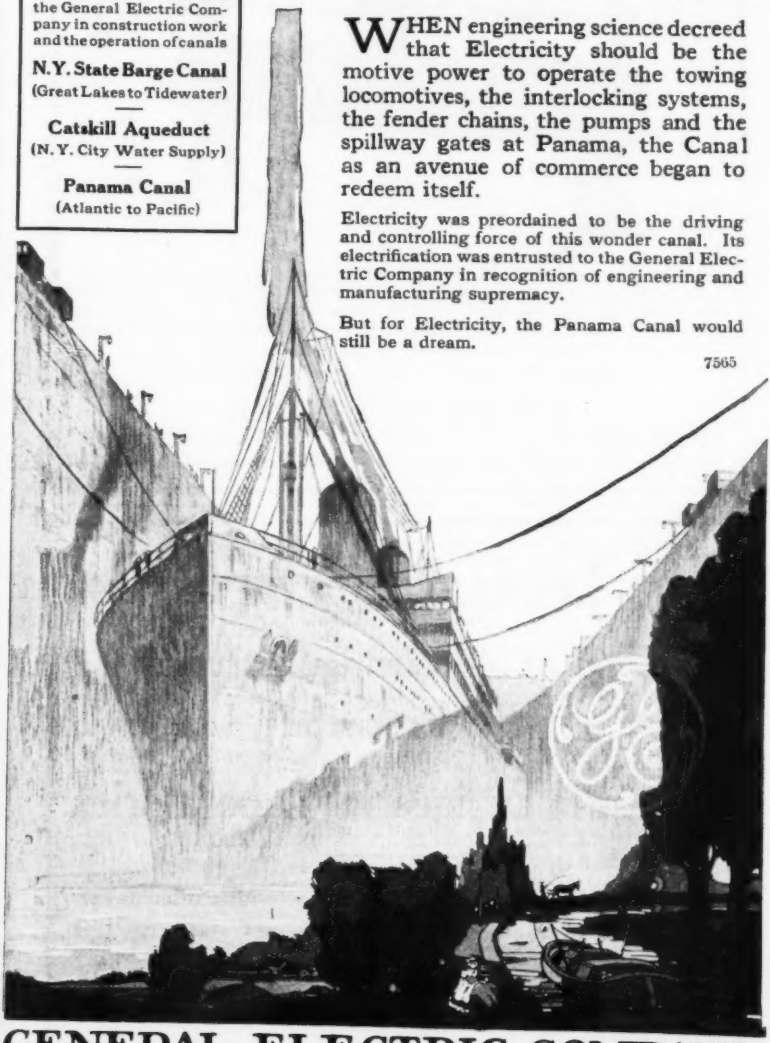

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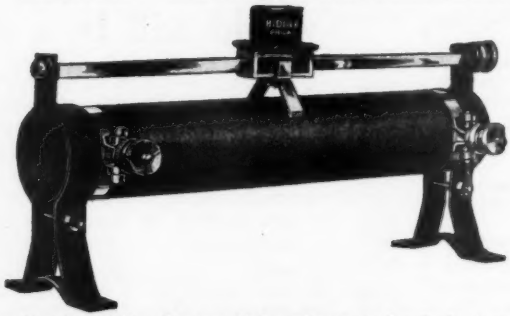

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